

SEQUENCE LISTING

<110> Frudakis, Tony N.
 Reed, Steven G.
 Smith, John M.
 Misher, Linda E.
 Dillon, Davin C.
 Retter, Marc W.
 Wang, Aijun
 Skeiky, Yasir A.W.
 Harlocker, Susan L.
 Day, Craig H.

<120> COMPOSITIONS AND METHODS FOR THE
 THERAPY AND DIAGNOSIS OF BREAST CANCER

<130> 210121.419C11

<140> US

<141> 2001-03-16

<160> 334

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 363

<212> DNA

<213> Homo sapien

<400> 1

ttagagaccc aattgggacc taattgggac ccaaatttct caagtggagg gagaactttt	60
gacgatttcc accggtatct cctcgtgggt attcagggag ctgccagaa acctataaac	120
ttgtctaagg cgattgaagt cgtccagggg catgatgagt caccaggagt gtttttagag	180
cacctccagg aggcttatcg gatttacacc ccttttgacc tggcagcccc cgaaaatagc	240
catgctotta atttggcatt tgtggctcag gcagccccag atagtaaaag gaaactccaa	300
aaactagagg gattttgctg gaatgaatac cagtcagctt ttagagatag cctaaaaggt	360
ttt	363

<210> 2

<211> 121

<212> PRT

<213> Homo sapien

<400> 2

Leu Glu Thr Gln Leu Gly Pro Asn Trp Asp Pro Asn Phe Ser Ser Gly	
1 5 10 15	
Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln	
20 25 30	
Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Ala Ile Glu Val Val	

caagtaggcc	ctttaaacta	ctcacctgtg	ttgtcttcta	atttattctg	ttttattttg	120
tttccatcat	tttaaggggt	taaaatcatc	ttgttcagac	ctcagcatat	aaaatgaccc	180
atctgtagac	ctcaggctcc	aaccataccc	caagagttgt	ctgggtttgt	ttaaattact	240
gccaggtttc	agctgcagat	atccctggaa	ggaatattcc	agattccctg	agtagtttcc	300
aggttaaaat	cctataggct	tcttctgttt	tgaggaagag	ttcctgtcag	agaaaaacat	360
gattttggat	ttttaacttt	aatgcttgtg	aaacgctata	aaaaaaattt	tctaccacct	420
gctttaaagt	actgttagtg	agaaattaaa	attccttcag	gaggattaaa	ctgccatttc	480
agttacccta	attccaaatg	ttttgggtgt	tagaatcttc	tttaatgttc	ttgaagaagt	540
gttttatatt	ttcccatcna	gataaattct	ctcncncctt	ntttttntnt	ctnntttttt	600
aaaacggant	cttgtccctg	tgtccangct	gggaattttt	ttttggccaa	tctccgctnc	660
cttgcaanaa	tntgcntccc	caaaattacc	ncctttttcc	cacctccacc	ccnnggaatt	720
acctggaatt	anaggccccc	ccccccccc	cggttaattt	gtttttgttt	ttagtataaaa	780
acgggtttcc	tgtttttagtt	aggatggccc	anntctgacc	ccntnatcnt	ccccctcngc	840
cctcnaatnt	tnggnntang	gcttaccccc	ccngnngttt	tttccctccat	tnaaattttc	900
tntggantct	tgaatnncgg	gttttccctt	ttaaaccnat	tttttttttn	nnncccccan	960
ttttncctcc	cccntntnta	anggggggtt	cccaanccgg	gtccncccc	angtccccaa	1020
tttttctccc	ccccctctt	ttttctttnc	cccaaaantc	ctatcttttc	ctnnaaatat	1080
cnantnt						1087

<210> 5
 <211> 1010
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(1010)
 <223> n = A,T,C or G

<400> 5						
tctagaccaa	gaaatgggag	gatttttagag	tgactgatga	tttctctatc	atctgcagtt	60
agtaaacatt	ctccacagtt	tatgcaaaaa	gtaacaaaac	cactgcagat	gacaaacact	120
aggtaacaca	catactatct	cccaaatacc	taccacacaag	ctcaacaatt	ttaaactggt	180
aggatcactg	gctctaata	ccatgacatg	aggtcaccac	caaaccatca	agcgctaaac	240
agacagaatg	tttccactcc	tgatccactg	tgtgggaaga	agcaccgaac	ttaccactg	300
gggggcctgc	ntcanaanaa	aagcccattg	ccccgggtnt	ncctttnaac	cggaacgaat	360
naaccaccca	tccccacanc	tcctctgttc	ntgggcccctg	catcttgtgg	cctcntntnc	420
tttnggggan	acntggggaa	ggtaccccat	ttcnttgacc	ccncnanaaa	accccngtgg	480
ccctttgccc	tgattcncnt	gggccttttc	tcttttccct	tttgggttgt	ttaaattccc	540
aatgtcccn	gaaccctctc	cntnctgccc	aaaacctacc	taaattntct	nctangnntt	600
ttcttgggtg	tncttttcaa	aggtnacctt	ncctgttcan	ncnncacnaa	aatttnttcc	660
ntatnntggn	cccnnaaaaa	nnnatcnnc	cnaattgccc	gaattggtn	ggtttttcct	720
nctgggggaa	accctttaaa	tttccccctt	ggccggcccc	ccttttttcc	ccctttnga	780
aggcaggngg	ttcttcccg	acttccaatt	ncaacagcnc	tgccattgn	tgaaccctt	840
ttcctaataa	taaaaaatan	ccggttnngg	nnggcctctt	tccctccng	gngggnngn	900
aaantcctta	cccnnaaaaa	ggttgcttag	ccccngtcc	ccactcccc	nggaaaaatn	960
aaccttttcn	aaaaaaggaa	tataantttt	ccactccttn	gttctcttcc		1010

<210> 6
 <211> 950
 <212> DNA
 <213> Homo sapien

 <220>

<221> misc_feature
 <222> (1)...(950)
 <223> n = A,T,C or G

<400> 6

tctagagctc	gcgggccgcga	gctctaatac	gactcaactat	agggcgctcga	ctcgatctca	60
gctcaactga	atctctgccc	ccgggggtcat	ggcattctcc	tgccctcagcc	ttccaagtag	120
ctgggattac	aggcgtgcaa	caccacaccc	ggctaatttt	gtatttttaa	tagagatggg	180
gttttccctt	gttggccann	atggctctna	acccctgacc	tcnngtgatc	ccccncccn	240
ngancctcna	ctgctgggga	tnnccgnnnn	nnnccctccn	nncnnnnnnn	nncnntccn	300
tnntccttnc	tcnnnnnnnn	cnntcnntcc	nncttctcnc	cnntntttnt	cnncncccn	360
cnnnccnct	ncccnccnn	tcnctnccnn	tncccnccnn	nnccnnccnn	cnnnccnctn	420
ccnntacntc	ntnnnccnn	ccntctntnn	cctcnccnnt	cncnccnct	tnctcctcn	480
ntnnnnnnct	ccnnnnntct	ctnccnccnn	tncccnntn	nccnccccc	ncctcnccnc	540
ctnntttnnn	cnnccnntcc	ntnccnttcn	nncccnntnn	cnnccnccnn	nnctntttc	600
ccnccnnttc	ctnccnctn	nnntntcnnn	cncnccntc	ntttctcct	nnctccnnc	660
tcnnttcncc	cnnctcnc	ccccnccnt	ctctcncn	nnnnntntn	nnccnccnc	720
tnctcncttc	ntcnntcnc	tnctntcnc	nnccnctnc	tnccntntn	ctnnctcnc	780
tnccntntcn	ccntccttn	ctntctcctn	tncccttcc	ctnccctnct	cnttcnccnc	840
ccnntntntn	tnncccnnt	ncnnnccnc	cntctttcn	tctctnctnn	nnntnccctc	900
nncccnctnc	ctnntcncct	ncnntacn	tnctnctcn	tcttcttcc		950

<210> 7
 <211> 1086
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(1086)
 <223> n = A,T,C or G

<400> 7

tctagagctc	gcgggccgcga	gctcaattaa	ccctcaactaa	agggagtcga	ctcgatcaga	60
ctgttactgt	gtctatgtag	aaagaagtag	acataagaga	ttccattttg	ttctgtacta	120
agaaaaattc	ttctgccttg	agatgctgtt	aatctgtaac	cctagcccca	accctgtgct	180
cacagagaca	tgtgctgtgt	tgactcaagg	ttcaatggat	ttagggctat	gctttgttaa	240
aaaagtgtt	gaagataata	tgcttgtaa	aagtcacac	cattctctaa	tctcaagtac	300
ccaggagac	aatacactgc	ggaaggccgc	agggacctct	gtctaggaaa	gccaggatt	360
gtccaagatt	tctcccatg	tgatagcctg	agatatggcc	tcattgggaag	ggtaagacct	420
gactgtcccc	cagcccgcga	ccccccagcc	cgacatcccc	cagcccgcga	cccgaagagg	480
gtctgtgctg	aggaagatta	ntaaaagagg	aaggctcttt	gcattgaagt	aagaagaagg	540
ctctgtctcc	tgctcgtccc	tgggcaataa	aatgtcttgg	tgttaaacc	gaatgtatgt	600
tctacttact	gagaatagga	gaaaacatcc	ttagggctgg	aggtgagaca	ccctggcggc	660
atactgtct	ttaatgcacg	agatgtttgt	ntaattgcc	tcaggggcca	ncccttttc	720
ttaacttttt	atganacaaa	aactttgttc	nottttctg	cgaacctctc	ccctatttan	780
cctattggcc	tgcccatccc	ctccccaaan	ggtgaaaana	tgttcntaaa	tnccaggagg	840
tccaaaacnt	tttcccggtg	gtcccccttc	caaccccgctc	cctgggcccnn	tttccctccc	900
aacntgtccc	ggntccttcn	ttcccncccc	cttcccnagan	aaaaaacccc	gtntganggn	960
gccccctcaa	attataacct	ttccnaaaca	aanngggttcn	aagggtggtt	gnttccgggtg	1020
cggctggcct	tgaggtcccc	cctncacccc	aatttggaan	ccngtttttt	ttattgccc	1080
ntcccc						1086

<210> 8

<211> 1177
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(1177)
 <223> n = A,T,C or G

<400> 8

nccnttttaga	tggttgacaan	ntaaacaagc	ngctcaggca	gctgaaaaaa	gccactgata	60
aagcatcctg	gagtatcaga	gtttactgtt	agatcagcct	catttgactt	cccctccac	120
atgggtgttta	aatccagcta	cactacttcc	tgactcaaac	tccactattc	ctgttcatga	180
ctgtcaggaa	ctgttgga	ctactgaaac	tgcccgacct	gatcttcaaa	atgtgcccct	240
aggaaaggtg	gatgccaccg	tggtcacaga	cagtaccncc	ttcctcgaga	agggactacg	300
aggggccggt	gcantgttta	ccaaggagac	tnatgtgttg	tggtgtcagg	ctttaccanc	360
aaacacctca	ncncnnaagg	ctgaattgat	cgccctcact	caggctctcg	gatggggtaa	420
gggatattaa	cgttaacact	gacagcaggt	acgcctttgc	tactgtgcat	gtacgtggag	480
ccatctacca	ggagcgtggg	ctactcactc	ggcaggtggc	tgtnatccac	tgtaaangga	540
catcaaaagg	aaaacnnggc	tggtgcccgt	ggtaaccana	aanctgatcn	ncagctcnaa	600
gatgctgtgt	tgactttcac	tcncncctct	taaacttgct	gcccacantc	tcctttccca	660
accagatctg	cctgacaatc	cccatactca	aaaaaaaaan	aanactggcc	ccgaaccnna	720
accaataaaa	acgggggangg	tnngtnganc	nnctgaccc	aaaaataatg	gatcccccg	780
gctgcaggaa	ttcaattcan	ccttactnat	acccccaaen	ngnggggggg	ggcngtnc	840
cattncctct	ntattnatte	tttncccc	cccccgcnt	cctttttnaa	ctcgtgaaag	900
ggaaaacctg	ncttaccan	ttatcnctg	gacntcccc	ttcncggtn	gnttanaaaa	960
aaaagccnc	antccntcc	naaatttgca	cngaaaggna	aggaatttaa	cctttatttt	1020
ttnttccttt	antttgtnn	cccccttta	cccaggcgaa	cngccatcnt	ttaanaaaaa	1080
aaanagaang	tttatttttc	cttngaacca	tccaatana	aancaccgc	nggggaacgg	1140
gnggnnaggc	cntcacccc	ctttntgtng	gngggnc			1177

<210> 9
 <211> 1146
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1146)
 <223> n = A,T,C or G

<400> 9

nccnntnnnt	gatgttgtct	ttttggcctc	tctttggata	ctttccctct	cttcagaggt	60
gaaaagggtc	aaaaggagct	gttgacagtc	atcccagggtg	ggccaatgtg	tccagagtac	120
agactccatc	agtgaggtca	aagcctgggg	cttttcagag	aaggaggat	tatgggtttt	180
ccaattatac	aagtcagaag	tagaaagaag	ggacataaac	caggaagggg	gtggagcact	240
catcacccag	agggacttgt	gcctctctca	gtggtagtag	aggggctact	tcctcccacc	300
acggttgcaa	ccaagaggca	atgggtgatg	agcctacagg	ggacatancc	gaggagacat	360
gggatgacct	taaggagta	ggctggtttt	aaggcggtgg	gactgggtga	gggaaactct	420
cctctctctc	agagagaagc	agtacagggc	gagctgaacc	ggctgaaggt	cgaggcgaaa	480
acacggtctg	gctcaggaag	accttggaag	taaaattatg	aatggtgcat	gaatggagcc	540
atggaagggg	tgctcctgac	caaactcagc	cattgatcaa	tgtaggggaa	actgatcagg	600
gaagccggga	atttcattaa	caaccgcgca	cacagcttga	acattgtgag	gttcagtgc	660
ccttcaaggg	gccactccac	tccaactttg	gccattctac	tttgcnaaat	ttccaaaact	720

```
<210> 10
<211> 545
<212> DNA
<213> Homo sapien
```

```
<210> 11
<211> 196
<212> DNA
<213> Homo sapien
```

```
<210> 12
<211> 388
<212> DNA
<213> Homo sapien
```

<400>	12
caggc ttgggggctc tgactagaaa ttcaaggaac ctgggattca agtccaactg	60
ccaac ttacctgtg gntcccaata aactgcttct ttcctattcc ctctctatta	120
aataa ggaaaaacgat gtctgtgtat agccaagtca gntatcctaa aaggagatac	180
yacat taaatatcag aatgtaaaac ctgggaacca ggttcccagc ctgggattaa	240
cagca agaagactga acagtactac tgtgaaaagc ccgaagnngc aatatgttca	300
ccgtt gaaggatgcc tgggagaatg aatgctctgt cccccagtcc caagctcact	360

tactataacct cctttatagc ctaggaga

388

<210> 13
 <211> 337
 <212> DNA
 <213> Homo sapien

<400> 13

tagtagttgc ctataatcat gtttctcatt attttcacat tttattaacc aatttctgtt	60
taccctgaaa aatatgaggg aaatatatga aacagggagg caatgttcag ataattgatc	120
acaagatatg atttctacat cagatgctct ttcttttctt gtttatttcc tttttatttc	180
ggttgtgggg tcgaatgtaa tagctttgtt tcaagagaga gttttggcag tttctgtagc	240
ttctgacact gctcatgtct ccaggcatct atttgcactt taggaggtgt cgtgggagac	300
tgagaggtct attttttcca tatttgggca actacta	337

<210> 14
 <211> 571
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(571)
 <223> n = A,T,C or G

<400> 14

tagtagttgc catacagtgc ctttccattt atttaacccc cacctgaacg gcataaactg	60
agtgttcagc tgggtgtttt tactgtaaac aataaggaga ctttgctctt catttaaacc	120
aaaatcatat ttcatatgtt acgctcgagg gtttttaccg gtctcttttt acactcctta	180
aaacagtttt taagtcgttt ggaacaagat attttttctt tcctggcagc ttttaacatt	240
atagcaaatt tgtgtctggg ggactgctgg tcaactgtttc tcacagttgc aaatcaaggc	300
atttgcaacc aagaaaaaaa aatttttttg ttttatattga aactggaccg gataaacggt	360
gtttggagcg gctgctgtat atagtgttaa atgggtttatt gcacctcctt aagttgcaat	420
tatgtggggg ggggnttttg natagaaagt ntttantcac anagtcacag ggacttttnt	480
cttttggnna ctgagctaaa aagggtgnt tttcggtggg gggcagatga aggctcacag	540
gaggcctttc tcttagaggg gggaactnct a	571

<210> 15
 <211> 548
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(548)
 <223> n = A,T,C or G

<400> 15

tatatattta ataacttaaa tatattttga tcaccactg ggggtgataag acaatagata	60
taaaagtatt tccaaaaagc ataaaaacaa agtatcatat caaaccaaat tcatactgct	120
tccccacccc gcaactgaaac ttacacttct aactgtctac ctaaccaaatt tctacccttc	180
aagtcttttg tgcgtgctca ctactctttt tttttttttt tttntttttg agatggagtc	240
tggctgtgca gccaggggt ggagtacaat ggcacaacct cagctcactg naacctccgc	300
ctcccagggt catgagattc tcctgnttca gccttcccag tagctgggac tacaggtgtg	360

catcaccatg	cctggntaat	cttttttngt	tttngggtag	agatgggggt	tttacatgtt	420
ggccaggntg	gtntcgaact	cctgacctca	agtgatccac	ccacctcagg	ctcccaaagt	480
gctaggatta	cagacatgag	ccactgngcc	cagncctggt	gcatgctcac	ttctctaggc	540
aactacta						548

<210> 16
 <211> 638
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(638)
 <223> n = A,T,C or G

<400> 16						
ttccgttatg	cacatgcaga	atattctatc	ggtacttcag	ctattactca	ttttgatggc	60
gcaatccgag	cctatcctca	agatgagtat	ttagaaagaa	ttgatttagc	gatagaccac	120
gctggtaagc	actctgacta	cacgaaattg	ttcagatgtg	atggatttat	gacagttgat	180
ctttggaaga	gattattaag	tgattatttt	aaaggggaatc	cattaattcc	agaatatctt	240
ggttttagctc	aagatgatat	agaaatagaa	cagaaagaga	ctacaaatga	agatgtatca	300
ccaactgata	ttgaagagcc	tatagtagaa	aatgaattag	ctgcatttat	tagccttaca	360
catagcgatt	ttcctgatga	atcttatatt	cagccatcga	catagcatta	cctgatgggc	420
aaccttacga	ataatagaaa	ctgggtgcgg	ggctattgat	gaattcatcc	ncagtaaatt	480
tggatatnac	aaaatataac	tcgattgcat	ttggatgatg	gaataactaaa	tctggcaaaa	540
gtaactttgg	agctactagt	aacctctctt	tttgagatgc	aaaattttct	tttagggttt	600
cttattctct	actttacgga	tattggagca	taacggga			638

<210> 17
 <211> 286
 <212> DNA
 <213> Homo sapien

<400> 17						
actgatggat	gtcgccggag	gcgaggggcc	ttatctgatg	ctcggttgcc	tgttcgtgat	60
gtgcgcggcg	attgggctgt	ttatctcaaa	caccgccacg	gcggtgctga	tggcgcctat	120
tgccttagcg	gcggcgaggt	caatggcggt	ctcaccctat	ccttttgcca	tgggtggtggc	180
gatggcggt	tcggcgcggt	ttatgacccc	ggtctcctcg	ccggttaaca	ccctgggtgct	240
tggccctggc	aagtactcat	ttagcgattt	tgtcaaaaata	ggcgtg		286

<210> 18
 <211> 262
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(262)
 <223> n = A,T,C or G

<400> 18						
tcgggtcatag	cagccccttc	ttctcaattt	catctgtcac	taccctgggtg	tagtatctca	60
tagccttaca	tttttatagc	ctcctccctg	gtctgtcttt	tgattttcct	gcctgtaatc	120
catatcacac	ataactgcaa	gtaaacattt	ctaaagtgtg	gttatgctca	tgtcactcct	180

gtgncaagaa atagtttcca ttaccgtctt aataaaattc ggatttggtc tttncatttn 240
 tcaactcttca cctatgaccg aa 262

<210> 19
 <211> 261
 <212> DNA
 <213> Homo sapien

<400> 19
 tcgggtcatag caaagccagt ggtttgagct ctctactgtg taaactccta aaccaaggcc 60
 atttatgata aatgggtggca ggatttttat tataaacatg taccatgca aatttcctat 120
 aactctgaga tatattcttc tacatttaaa caataaaaaat aatctatttt taaaagccta 180
 atttgcgtag ttaggtaaga gtgtttaatg agaggggtata aggtataaat caccagtcaa 240
 cgtttctctg cctatgaccg a 261

<210> 20
 <211> 294
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(294)
 <223> n = A,T,C or G

<400> 20
 tacaacgagg cgacgtcggg aaaatcggac atgaagccac cgctggtctt ttcgtccgag 60
 cgataggcgc cggccagcca gcggaacggg tgcccggatg gcgaagcgag ccggagttct 120
 tcggactgag tatgaatctt gttgtgaaaa tactcgccgc ctctggtcga cgacgtcgcg 180
 tcgaaatctt cgantcctt acgatcgaag tcttcgtggg cgacgatcgc ggtcagttcc 240
 gccccaccga aatcatggtt gagccggatg ctgnccccga agnccctcgtt tgtn 294

<210> 21
 <211> 208
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(208)
 <223> n = A,T,C or G

<400> 21
 ttggtaaagg gcatggacgc agacgcctga cgtttggtctg aaaatctttc attgattcgt 60
 atcaatgaat aggaaaattc ccaaagaggg aatgtcctgt tgctcgccag tttttntggt 120
 gttctcatgg anaaggcaan gagctcttca gactattggn attntcgttc ggtcttctgc 180
 caactagtcg ncttgcnang atcttcat 208

<210> 22
 <211> 287
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(287)
 <223> n = A,T,C or G

<400> 22
 nccnttgagc tgagtgattg agatntgtaa tggttgtaag ggtgattcag gcggattagg 60
 gtggcggggtc acccggcagt gggctctccg acaggccagc aggatttggg gcaggtacgg 120
 ngtgcgcatc gctcgactat atgctatggc aggcgagccg tggaaggngg atcaggtcac 180
 ggcgtggag ctttccacgg tccatgnatt gngatggctg ttctaggcgg ctgttgccaa 240
 gcgtgatggg acgctggctg gagcattgat ttctggtgcc aagggtgg 287

<210> 23
 <211> 204
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(204)
 <223> n = A,T,C or G

<400> 23
 ttgggtaaag ggagcaagga gaaggcatgg agaggctcan gctggctctg gcctacgact 60
 gggccaagct gtcgccgggg atggtggaga actgaagcgg gacctctctg aggtcctccg 120
 ncgttacttc nccgtccagg aggagggtct ttccgtggctc tnggaggagc ggggggagaa 180
 gatnctcttc atggtcnaca tccc 204

<210> 24
 <211> 264
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(264)
 <223> n = A,T,C or G

<400> 24
 tggattgggtc aggagcgggt agagtggcac cattgagggg atattcaaaa atattatattt 60
 gtctctaaatg atagttgctg agtttttctt tgacctatga gttatatttg agtttatttt 120
 ttaactttcc aatcgcatgg acatgttaga cttattttct gttaatgatt nctattttta 180
 ttaaattgga tttgagaaat tggttnttat tatatcaatt tttggtattt gttgagtttg 240
 acattatagc ttagtatgtg acca 264

<210> 25
 <211> 376
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(376)
 <223> n = A,T,C or G

<400> 25

ttacaacgag	gggaaactcc	gtctctacaa	aaattaaaaa	attagccagg	tgtggtggtg	60
tgcacccgca	atcccagcta	cttggggaggt	tgagacacaa	gantcaccta	natgtgggag	120
gtcaaggttg	catgagtcac	gattgtgccca	ctgcactcca	gcctgggtga	cagaccgaga	180
ccctgcctca	anaganaang	aataggaagt	tcagaaatcn	tggntgtggn	gcccagcaat	240
ctgcatctat	ncaacccctg	caggcaangc	tgatgcagcc	tangttcaag	agctgctgtt	300
tctggaggca	gcagttnggg	cttccatcca	gtatcacggc	cacactcgca	cnagccatct	360
gtcctccgtn	tgtnac					376

<210> 26

<211> 372

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(372)

<223> n = A,T,C or G

<400> 26

ttacaacgag	gggaaactcc	gtctctacaa	aaattaaaaa	attagccagg	tgtggtggtg	60
tgcacctgta	atcccagcta	cttgggcggc	tgagacacaa	gaaccaccta	aatgtgggag	120
ggtcaaggtt	gcatgagtc	tgatcgcgcc	actgcaotcc	agcctgggtg	acagactgag	180
accctgcctc	aaaagaaaaa	gaataggaag	ttcagaaaacc	ctgggtgtgg	ngcccagcaa	240
tctgcattta	aacaatccct	gcaggcaatg	ctgatgcagc	ctaagttcaa	gagctgctgt	300
tctggaggca	gnagtaaggg	cttccatcca	gcatcacggn	caacactgca	aaagcacctg	360
tcctcgttg	ta					372

<210> 27

<211> 477

<212> DNA

<213> Homo sapien

<400> 27

ttctgtccac	atctacaagt	tttattttatt	ttgtgggttt	tcagggtgac	taagtttttc	60
cctacattga	aaagagaagt	tgctaaaagg	tgacacaggaa	atcatttttt	taagtgaata	120
tgataatatg	ggtccgtgct	taatacaact	gagacatatt	tgttctctgt	tttttttagag	180
tcacctctta	aagtccaatc	ccacaatggg	gaaaaaaaaa	tagaaagtat	ttgttctacc	240
tttaaggaga	ctgcagggat	tctccttgaa	aacggagtat	ggaatcaatc	ttaaataaat	300
atgaaattgg	tttgtcttct	gggataagaa	attcccaact	cagtgtgctg	aaattcacct	360
gacttttttt	gggaaaaaat	agtcgaaaaat	gtcaatttgg	tccataaaat	acatgttact	420
attaaaagat	atttaaagac	aaattctttc	agagctctaa	gattggtgtg	gacagaa	477

<210> 28

<211> 438

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(438)

<223> n = A,T,C or G

<400> 28

```

tctncaacct cttgantgtc aaaaaccttn taggctatct ctaaaagctg actggtattc      60
attccagcaa aatccctcta gtttttggag tttcctttta ctatctgggg ctgcctgagc      120
cacaaatgcc aaattaagag catggctatt ttcgggggct gacaggtcaa aaggggtgta      180
aatccgataa gcctcctgga ggtgctctaa aaacactcct ggtgactcat catgccctg      240
gacgacttca atcgncttag acaagtttat aggtttctgg gcagctccct gaatacccac      300
gaggagatac cgggtgaaat cgtcaaaaagt tctccctcca cttgagaaat ttgggtccca      360
attaggtccc aattgggtct ctaatcacta ttctcttagc ttctctctcc ggnctattgg      420
ttgatgtgag gttgaaga                                438

```

```

<210> 29
<211> 620
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(620)
<223> n = A,T,C or G

```

```

<400> 29
aagagggtac cagccccaag ccttgacaac ttccataggg tgtcaagcct gtgggtgcac      60
agaagtcaaa aattgagttt tgggatcctc agcctagatt tcagaggata taaagaaaca      120
cctaacacct agatattcag acaaaaagttt actacaggga tgaagctttc acggaaaacc      180
tctactagga aagtacagaa gagaaatgtg ggtttggagc ccccaaacag aatcccctct      240
agaacactgc ctaatgaaac tgtgagaaga tggccactgt catccagaca ccagaatgat      300
agaccacca aaaacttatg ccatattgcc tataaaacct acagacactc aatgccagcc      360
ccatgaaaaa aaaactgaga agaagactgt nccctacaat gccaccggag cagaactgcc      420
ccaggccatg gaagcacagc tcttatatca atgtgacctg gatgttgaga catggaatcc      480
nangaaatcn ttttaanact tccacggttn aatgactgcc ctattanatt cngaacttan      540
atccnggcct gtgacctctt tgctttggcc attccccctt tttggaatgg ctnttttttt      600
cccatgcctg tncctcttta                                620

```

```

<210> 30
<211> 100
<212> DNA
<213> Homo sapien

```

```

<400> 30
ttacaacgag ggggtcaatg tcataaatgt cacaataaaa caatctcttc tttttttttt      60
tttttttttt tttttttttt tttttttttt tttttttttt                                100

```

```

<210> 31
<211> 762
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(762)
<223> n = A,T,C or G

```

```

<400> 31
tagtctatgc gccggacaga gcagaattaa attggaagtt gccctccgga ctttctaccc      60
acactcttcc tgaaaagaga aagaaaagag gcaggaaaga ggttaggatt tcattttcaa      120

```

gagtcagcta	attaggagag	cagagtttag	acagcagtag	gcaccccatg	atacaaacca	180
tggacaaagt	ccctgttttag	taactgccag	acatgatcct	gctcagggtt	tgaaatctct	240
ctgcccataa	aagatggaga	gcaggagtgc	catccacatc	aacacgtgtc	caagaaagag	300
tctcagggag	acaaggggat	caaaaaacaa	gattcttaat	gggaaggaaa	tcaaaccaaa	360
aaattagatt	tttctctaca	tatatataat	atacagatat	ttaacacatt	attccagagg	420
tggctccagt	ccttggggct	tgagagatgg	tgaaaacttt	tgttccacat	taacttctgc	480
tctcaaattc	tgaagtatat	cagaatggga	caggcaatgt	tttgctccac	actggggcac	540
agacccaaat	ggttctgtgc	ccgaagaaga	gaagcccga	agacatgaag	gatgcttaag	600
gggggttggg	aaagccaaat	tggtantatc	ttttcctcct	gcctgtgttc	cngaagtctc	660
cnctgaagga	attcttaaaa	ccctttgtga	ggaaatgccc	ccttaccatg	acaantggtc	720
ccattgcttt	tagggngatg	gaaacaccaa	gggttttgat	cc		762

<210> 32

<211> 276

<212> DNA

<213> Homo sapien

<400> 32

tagtctatgc	gtgtattaac	ctcccctccc	tcagtaacaa	ccaaagaggc	aggagctggt	60
attaccaacc	ccattttaca	gatgcatcaa	taatgacaga	gaagtgaagt	gacttgcgca	120
cacaaccagt	aaattggcag	agtcagattt	gaatccatgg	agtctggtct	gcactttcaa	180
tcaccgaata	ccctttctaa	gaaacgtgtg	ctgaatgagt	gcattggataa	atcagtgtct	240
actcaacatc	tttgcttaga	tatcccgcac	agacta			276

<210> 33

<211> 477

<212> DNA

<213> Homo sapien

<400> 33

tagtagttgc	caaatatattg	aaaatttacc	cagaagtgat	tgaaaacttt	ttggaacaa	60
aaacaaataa	agccaaaagg	taaaataaaa	atatctttgc	actctcgtaa	ttacctatcc	120
ataacttttt	caccgtaagc	tctcctgctt	gttagtgtag	tgtgggttata	ttaaactttt	180
tagttattat	tttttattca	cttttccact	agaaagtcac	tattgattta	gcacacatgt	240
tgatctcatt	tcattttttc	tttttatagg	caaaatttga	tgctatgcaa	caaaaatact	300
caagcccatt	atcttttttc	cccccgaaat	ctgaaaattg	caggggacag	agggaagtta	360
tcccatataa	aaattgtaaa	tatgttcagt	ttatgtttta	aatgcacaa	aacataagaa	420
aattgtgttt	acttgagctg	ctgattgtaa	gcagttttat	ctcaggggca	actacta	477

<210> 34

<211> 631

<212> DNA

<213> Homo sapien

<400> 34

tagtagttgc	caattcagat	gatcagaaat	gctgctttcc	tcagcattgt	cttgttaaac	60
cgcattgccat	ttggaacttt	ggcagtgaga	agccaaaagg	aagaggtgaa	tgacatatat	120
atatatatat	attcaatgaa	agtaaaatgt	atatgctcat	atacttttcta	gttatcagaa	180
tgagtttaagc	tttatgccat	tgggctgctg	catattttta	tcagaagata	aaagaaaatc	240
tgggcatttt	tagaatgtga	tacatgtttt	tttaaaactg	ttaaatatta	tttcgatatt	300
tgtctaagaa	ccggaatgtt	cttaaaattt	actaaaacag	tattgtttga	ggaagagaaa	360
actgtactgt	ttgccattat	tacagtogta	caagtgcacg	tcaagtcacc	cactctctca	420
ggcatcagta	tccacctcat	agcttttacac	atthttgacg	ggaatattgc	agcatcctca	480
ggcctgacat	ctgggaaagg	ctcagatcca	cctactgctc	cttgctcggt	gatttgtttt	540

```

aaaatattgt gcctgggtgtc actttttaagc cacagccctg cctaaaagcc agcagagaac 600
agaaccgcga ccattctata ggcaactact a 631

```

```

<210> 35
<211> 578
<212> DNA
<213> Homo sapien

```

```

<400> 35
tagtagttgc catcccatat tacagaaggc tctgtataca tgacttattt ggaagtgatc 60
tgttttctct ccaaaccocat ttatcgtaat ttcaccagtc ttggatcaat ctgggtttcc 120
actgatacca tgaaacctac ttggagcaga cattgcacag ttttctgtgg taaaaactaa 180
aggtttattt gctaaagctgt catcttatgc ttagtatttt ttttttacag tggggaattg 240
ctgagattac attttgttat tcattagata ctttgggata acttgacact gtcttctttt 300
tttcgctttt aattgctatc atcatgcttt tgaacaaga acacattagt cctcaagtat 360
tacataagct tgcttggttac gcctgggtgt ttaaaggact atctttggcc tcaggttcac 420
aagaatgggc aaagtgtttc cttatgttct gtagttctca ataaaagatt gccaggggcc 480
gggtactgtg gctcgactcg taatcccagc actttgggaa gctgaggctg gcggatcatg 540
ttagggcagg tgttcgaaac cagcctgggc aactacta 578

```

```

<210> 36
<211> 583
<212> DNA
<213> Homo sapien

```

```

<400> 36
tagtagttgc ctgtaatccc agcaactcag gaggctgggg caggagaatc agttgaacct 60
gggaggcaga agttgtaatt agcaaagatc gcaccattgc acttcagcct gggcaacaag 120
agtgaattc catctcaaaa acaaaaaaaaa gaaaaagaaa agaaaaggaa aaaacgtata 180
aaccagcca aaacaaaatg atcattcttt taataagcaa gactaattta atgtgtttat 240
ttaatcaaag cagttgaatc ttctgagtta ttgggtgaaa taccatgta gttaatttag 300
ggttcttact tgggtgaacg tttgatgttc acagggttata aaatggttaa caaggaaaat 360
gatgcataaa gaatcttata aactactaaa aataaataaa atataaatgg ataggtgcta 420
tggatggagt ttttgtgtaa tttaaaatct tgaagtcatt ttggatgctc attggttgtc 480
tggtaatctc cattaggaaa aggttatgat atggggaaac tgtttctgga aattgcggaa 540
tgtttctcat ctgtaaaatg ctagtatctc agggcaacta cta 583

```

```

<210> 37
<211> 716
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(716)
<223> n = A,T,C or G

```

```

<400> 37
gatctactag tcatntggat tctatccatg gcagctaagc ctttctgaat ggattctact 60
gctttcttgt tctttaatcc agacccttat atatgtttat gttcacaggc agggcaatgt 120
ttagtgaaaa caattctaaa ttttttattt tgcattttca tgctaatttc cgtcacactc 180
cagcaggctt cctgggagaa taaggagaaa tacagctaaa gacattgtcc ctgcttactt 240
acagcctaag ggtatgcaaa accacttcaa taaagtaaca ggaaaagtac taaccaggta 300
gaatggacca aaactgatat agaaaaatca gaggaagaga ggaacaaata tttactgagt 360

```

```

octagaatgt acaaggcttt ttaattacat attttatgta aggcctgcaa aaaacagggtg 420
agtaatcaac atttgtccca ttttacatat aaggaaactg aagcttaaat tgaataatTT 480
aatgcataga ttttatagtt agaccatggt caggccctta tgttatactt actagctgta 540
tgaatatgag aaaataatTT tgttatTTTt ttggcatcag tattttcatc tgcaaaataa 600
agctaaagtt atttagcaaa cagtcagcat agtgccctgat acatagtagg tgctccaaac 660
atgattacnc tantattngg tattanaaaa atccaatata ggcntggata aaaccg 716

```

```

<210> 38
<211> 688
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(688)
<223> n = A,T,C or G

```

```

<400> 38
ttctgtccac atatcatccc actttaattg ttaatcagca aaactttcaa tgaaaaatca 60
tccatttttaa ccaggatcac accaggaaac tgaagggtgta ttttttttta ccttaaaaaa 120
aaaaaaaaaa accaaacaaa ccaaaacaga ttaacagcaa agagttctaa aaaatttaca 180
tttctcttac aactgtcatt cagagaacaa tagttcttaa gtctgttaaa tcttggcatt 240
aacagagaaa cttgatgaan agttgtactt ggaatattgt ggattttttt ttttgtctaa 300
tctcccccta ttgttttgcc aacagtaatt taagtttggtg tggaacatcc ccgtagttga 360
agtgtaaaaca atgtatagga aggaatatat gataagatga tgcatacat atgcattaca 420
tgtagggacc ttcacaactt catgcactca gaaaacatgc ttgaagagga ggagaggacg 480
gcccagggtc accatccagg tgccttgagg acagagaatg cagaagtggc actgttgaaa 540
tttagaagac catgtgtgaa tggtttcagg cctgggatgt ttgccaccaa gaagtgcctc 600
cgagaaatTT ctttccatt tggaatacag ggtggcttga tgggtacggt gggtgaccca 660
acgaagaaaa tgaaattctg ccctttcc 688

```

```

<210> 39
<211> 585
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(585)
<223> n = A,T,C or G

```

```

<400> 39
tagtagttgc cgcnnaccta aaanttggaa agcatgatgt ctaggaaaca tantaaaata 60
gggtatgcct atgtgctaca gagagatggt agcattttaa gtgcatantt ttatgtatTT 120
tgacaaatgc atatncctct ataatccaca actgattacg aagctattac aattaaaaag 180
tttggccggg cgtggtgggc ggtggctgac gcctgtaatc ccagcacttt gggaggccga 240
ggcacgcgga tcacgagggtc gggagttcaa gaccatcctg gctaacacgg tgaaagtcca 300
tctctactaa aaatacga aaattacccc ggcgtggtgg cgggcgcctg tagtcccagc 360
tactccggag gctgaggcag gagaatggcg tgaaccacgg acacggagct tgcaagtgtgc 420
caacatcacg tctactgcct ccagcctggg ggacaggaac aagantcccg tcctcanaaa 480
agaaaaatac tactnatant ttcnacttta ttttaantta cacagaactn cctcttggtgta 540
cccccttacc attcatctca cccacctcct atagggcacn nctaa 585

```

```

<210> 40

```

<211> 475
 <212> DNA
 <213> Homo sapien

<400> 40
 tctgtccaca ccaatcttag aagctctgaa aagaatttgt ctttaaatat cttttaatag 60
 taacatgtat tttatggacc aaattgacat tttcgactgt tttttccaaa aaagtcaggt 120
 gaatttcagc acactgagtt gggaatttct tatcccagaa gaccaaccaa tttcatattt 180
 atttaagatt gattccatac tccgttttca aggagaatoc ctgcagtcct cttaaaggta 240
 gaacaaatac ttcctatttt tttttcacca ttgtgggatt ggactttaag aggtgactct 300
 aaaaaaacag agaacaaata tgtctcagtt gtattaagca cggaccata ttatcatatt 360
 cacttaaaaa aatgatttcc tgtgcacctt ttggcaactt ctcttttcaa tgtaggga 420
 aacttagtca ccctgaaaac ccacaaaata aataaaactt gtagatgtgg acaga 475

<210> 41
 <211> 423
 <212> DNA
 <213> Homo sapien

<400> 41
 taagagggta catcgggtaa gaacgtaggc acatctagag cttagagaag tctggggtag 60
 gaaaaaaatc taagtattta taagggtata ggtaacattt aaaagtaggg ctagctgaca 120
 ttatttagaa agaacacata cggagagata agggcaaagg actaagacca gaggaacact 180
 aatatttagt gatcacttcc attcttggtta aaaatagtaa cttttaagtt agcttcaagg 240
 aagatttttg gccatgatta gttgtcaaaa gttagttctc ttgggtttat attactaatt 300
 ttgttttaag atccttggtta gtgctttaat aaagtcatgt tatatcaaac gctctaaaac 360
 attgtagcat gttaaatgtc acaatatact taccatttgt tgtatatggc tgtaccctct 420
 cta 423

<210> 42
 <211> 527
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(527)
 <223> n = A,T,C or G

<400> 42
 tctcctaggc taatgtgtgt gtttctgtaa aagtaaaaag ttaaaaattt taaaaataga 60
 aaaaagctta tagaataaga atatgaagaa agaaaatatt tttgtacatt tgcacaatga 120
 gtttatgttt taagctaagt gttattacaa aagagccaaa aaggttttaa aaattaaaac 180
 gtttgtaaag ttacagtacc cttatgttaa tttataattg aagaaagaaa aacttttttt 240
 tataaatgta gtgtagccta agcatacagt atttataaag tctggcagtg ttcaataatg 300
 tcctaggcct tcacattcac tcaactgactc acccagagca acttccagtc ctgtaagctc 360
 cattcgtggg aagtgccta tacaggtgca ccatttattt tacagtattt ttactgtacc 420
 ttctctatgt ttccatatgt ttcgatatac aaataccact gggtactatn gcccnacagg 480
 taattccagt aacacggcct gtatacgtct ggtancccta gngaaga 527

<210> 43
 <211> 331
 <212> DNA
 <213> Homo sapien

<400> 43

tcttcaacct	cgtaggacaa	ctctcatatg	cctggggcact	atTTTTtaggt	tactaccttg	60
gctgcccttc	tttaagaaaa	aaaaaagaag	aaaaaagaac	ttttccacaa	gtttctcttc	120
ctctagttgg	aaaattagag	aatcatgtt	tttaattttg	tgttatttca	gacacaaat	180
tcaaacactt	gtaaacatta	agcttctgtt	caatccccctg	ggaagaggat	tcattctgat	240
atttacgggt	caaaaagaag	tgtaatatgt	tgcttggaac	acagagaacc	agttattaac	300
ttcctactac	tattatataa	taaataataa	c			331

<210> 44

<211> 592

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(592)

<223> n = A,T,C or G

<400> 44

ggcttagtag	ttgccaggca	aaatarcgtt	gattctcctc	aggagccacc	cccaacaccc	60
ctgtttgctt	ctagacctat	acctagacta	aagtcccagc	agacccttag	aggtgaggtt	120
cagagtgacc	cttgaggaga	tgtgctacac	tagaaaagaa	ctgcttgagt	tttctaattt	180
atataagcag	aaatctggag	aagagtcata	ggaatggata	ttaaggggtg	gagataatgg	240
cggaaggaat	atagagttgg	atcaggctgg	acttattgat	ttgaaccac	taagtagaga	300
ttctgctttt	gatgttgac	ctcaggagg	taaaaaagg	tttaatgggt	ctaatagttt	360
atttgcttgg	ttagctgaaa	tatggataaa	agatggccca	ctgtgagcaa	gctggaaatg	420
cctgatctct	ctcagtttaa	tgtagaggaa	gggatccaaa	agtttaggga	ganttggaatg	480
ctggraktgg	attggtcact	ttgrgacct	cccwttccag	ctgggagggt	ccagaagata	540
cacccttgac	caacgctttg	cgaaatggat	ttgtgatggc	ggcaactact	aa	592

<210> 45

<211> 567

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(567)

<223> n = A,T,C or G

<400> 45

ggcttagtag	ttgccattgc	gagtgcctgc	tcaacgagcg	ttgaacatgg	cggattgtct	60
agattcaacg	gatttgagtt	ttaccagcaa	agcgaaccaa	gcgcggccca	gagaattatg	120
ggttggttgg	ctttgaaaag	atggaaatcc	tgtaggccta	gtcagaaaag	ccttcttgca	180
gaacagttgg	ttctcgggcg	aacgctcatc	aagatgccca	ttggaaaggc	tagcgtgtat	240
ttgggagagc	ctgatagcgt	gtcttctgat	gatgtttgtg	cttgacagct	gacaaaagat	300
atgcaaagca	agtccgaact	agacgtcaag	cttcgtgagc	aaattattgt	agactcctac	360
ttatactgtg	aggaatgata	gccaagggtg	gggactttta	gactaagggtg	gtttgtactt	420
gcgccgatga	tcccaggcag	aaagamctga	tcgctagtgt	tatacgggca	actactaagc	480
cgaattccag	cacactggcg	gccgttacta	attggatccg	anctcgggtac	cagcttgatg	540
catascctga	gttwtctata	ntgtcnc				567

<210> 46

<211> 908
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(908)
 <223> n = A,T,C or G

<400> 46

gagcgaaaga	ccgagggcag	ngnntangng	cgangaagcg	gagagggcca	aaaagcaacc	60
gctttccccc	gggggtgccg	attcattaag	gcaggtggag	gacaggtttc	ccgatggaag	120
gcggcagggg	cgcaagcaat	taatgtgagt	aggccattca	ttagcaccog	ggcttaacat	180
ttaagcttcg	ggttggtatg	tgggtgggaat	tgtgagcgga	taacaatttc	acacaggaaa	240
cagctatgac	catgattacg	ccaagctatt	taggtgacat	tatagaataa	ctcaagttat	300
gcacaaagct	tggtagccag	ttcggtacca	ctagtaacgg	ccgccagtgt	gtggaattcg	360
gcttagtagt	tgccgaccat	ggagtgtctac	ctaggctaga	atacctgagy	tcctccctag	420
cctcactcac	attaaattgt	atcttttcta	cattagatgt	cctcagcgcc	ttattttctgc	480
tggacwatcg	ataaattaat	cctgatagga	tgatagcagc	agattaatta	ctgagagtat	540
gttaatgtgt	catccctcct	atataacgta	tttgcathtt	aatggagcaa	ttctggagat	600
aatccctgaa	ggcaaaggaa	tgaatcttga	gggtgagaaa	gccagaatca	gtgtccagct	660
gcagttgtgg	gagaaggtga	tattatgtat	gtctcagaag	tgacaccata	tgggcaacta	720
ctaagcccg	attccagcac	actggcgggc	gttactaatg	gatccgagct	cggtaccaag	780
cttgatgcat	agcttgagta	tctatagtgt	cactaaatag	cctggcggtta	tcatggtcac	840
agctgtttcc	tgtgtgaaat	tgttatccgc	tcccaattcc	ccccaccata	cgagccggaa	900
cataaagt						908

<210> 47
 <211> 480
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(480)
 <223> n = A,T,C or G

<400> 47

tgccaacaag	gaaagtttta	aatttcccct	tgaggattct	tggatgatcat	caaattcagt	60
ggtttttaag	gttgttttct	gtcaaataac	tctaacttta	agccaaacag	tatatggaag	120
cacagataka	atattacaca	gataaaagag	gagttgatct	aaagtaraga	tagttggggg	180
ctttaatttc	tggaacctag	gtctccccc	cttcttctgt	gctgaggaac	ttcttggaag	240
cggggattct	aaagtctctt	ggaagacagt	ttgaaaacca	ccatgttgtt	ctcagtacct	300
ttatttttaa	aaagttaggtg	aacattttga	gagagaaaag	ggcttggttg	agatgaagtc	360
ccccccccc	cttttttttt	tttttagctga	aatagatacc	ctatgttnaa	rgaarggatt	420
attattttacc	atgccaytar	scacatgctc	tttgatgggc	nyctccstac	cctccttaag	480

<210> 48
 <211> 591
 <212> DNA
 <213> Homo sapien

<400> 48

aagagggtac	cgagtgggaat	ttccgcttca	ctagtctggt	gtggctagtc	ggtttcgtgg	60
------------	-------------	------------	------------	------------	------------	----

```
<210> 49
<211> 454
<212> DNA
<213> Homo sapien
```

```
<210> 50
<211> 463
<212> DNA
<213> Homo sapien
```

```
<210> 51
<211> 399
<212> DNA
<213> Homo sapien
```

<400>	51						
cttcaacctc	ccaaagtgct	gggattacag	gactgagcca	ccacgctcag	cctaagcctc		60
tttttcacta	ccctctaagc	gatctaccac	agtgatgagg	ggctaaagag	cagtgcatt		120
tgattacaat	aatggaactt	agattttatta	attaacaatt	tttccttagc	atgttggttc		180
cataattatt	aagagtatgg	acttacttag	aaatgagctt	tcatttttaag	aatttcattc		240
ttgaccttct	ctattagtct	gagcagtatg	acactatacg	tatttttattt	aactaaccta		300
cottgagcta	ttacttttta	aaaggctata	tacatgaatg	tgtattgtca	actgtaaagc		360
cccacagtat	ttaattatat	catgatgtct	ttgaggttg				399

<210> 52
 <211> 392
 <212> DNA
 <213> Homo sapien

<400> 52
 cttcaacctc aatcaacctt ggtaattgat aaaatcatca ctttaactttc tgatataatg 60
 gcaataatta tctgagaaaa aaaagtgggtg aaagattaaa cttgcatttc tctcagaatc 120
 ttgaaggata tttgaataat tcaaaagcgg aatcagtagt atcagccgaa gaaactcact 180
 tagctagaac gttggaccca tggatctaag tccctgccct tccactaacc agctgatttg 240
 ttttgtgtaa acctcctaca cgcttgggct tggtcgcctc atttgtcaaa gtaaaggctg 300
 aaataggaag ataatgaacc gtgtcttttt ggtctctttt ccatccatta ctctgatttt 360
 acaaagaggc ctgtattccc ctggtgaggt tg 392

<210> 53
 <211> 179
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(179)
 <223> n = A,T,C or G

<400> 53
 ttccgggtgat gcctcctcag gctacagtga agactggatt acagaaaggt gccagcgaga 60
 tttcagattc ctgtaaacct cttaaagaaa ggagtcgcgc ctcaactgat gtagaaatga 120
 ctagttcagc atacngagac acntctgact ccgattctag aggactgagt gacctgcan 179

<210> 54
 <211> 112
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(112)
 <223> n = A,T,C or G

<400> 54
 ttccgggtgat gcctcctcag gctacatcat natagaagca aagtagaana atcnngtttg 60
 tgcattttcc cacanacaaa attcaaatga ntggaagaaa ttggganagt at 112

<210> 55
 <211> 225
 <212> DNA
 <213> Homo sapien

<400> 55
 tgagcttccg cttctgacaa ctcaatagat aatcaaagga caactttaac agggattcac 60
 aaaggagtat atccaaatgc caataaacat ataaaaagga attcagcttc atcatcatca 120
 gaagwatgca aattaaacc ataataagaa accactatgt ccactagaa tagataaaat 180
 cttaaaagac tggtaaaacc aagtgttgggt aaggcaagag gagca 225

<210> 56
 <211> 175
 <212> DNA
 <213> Homo sapien

<400> 56
 gctcctcttg ccttaccaac acattctcaa aaacctgtta gagtcctaag cattctcctg 60
 ttagtattgg gattttaccc ctgtcctata aagatgttat gtaccaaaaa tgaagtggag 120
 ggccataccc tgaggaggagg gagggatctc tagtgttgtc agaagcggaa gctca 175

<210> 57
 <211> 223
 <212> DNA
 <213> Homo sapien

<400> 57
 agccatttac caccatgga tgaatggatt ttgtaattct agctgttgta ttttgtgaat 60
 ttgttaattt tgttggtttt ctgtgaaaca catacattgg atatgggagg taaaggagtg 120
 tcccagttgc tcctgggtcac tccctttata gccattactg tcttgtttct tgtaactcag 180
 gttaggtttt ggtctctctt gctccactgc aaaaaaaaaa aaa 223

<210> 58
 <211> 211
 <212> DNA
 <213> Homo sapien

<400> 58
 gttcgaaggt gaacgtgtag gtagcggatc tcacaactgg ggaactgtca aagacgaatt 60
 aactgacttg gatcaatcaa atgtgactga ggaaacacct gaaggtgaag aacatcatcc 120
 agtggcagac actgaaaata aggagaatga agttgaagag gtaaaagagg aggggccaaa 180
 agagatgact ttggatgggt ggtaaatggc t 211

<210> 59
 <211> 208
 <212> DNA
 <213> Homo sapien

<400> 59
 gctcctcttg ccttaccaac tttgcaccca tcatcaacca tgtggccagg tttgcagccc 60
 aggtgcaca tcaggggact gcctcgcaat acttcatget gttgctgctg actgatggtg 120
 ctgtgacgga tgtggaagcc acacgtgagg ctgtggtgcg tgccctgaac ctgcccatgt 180
 cagtgatcat tatgggtggt aaatggct 208

<210> 60
 <211> 171
 <212> DNA
 <213> Homo sapien

<400> 60
 agccatttac caccataact aaattctagt tcaaactcca acttcttcca taaaacatct 60
 aaccactgac accagttggc aatagcttct tcttcttta acctcttaga gtatttatgg 120
 tcaatgccac acatttctgc aactgaataa agttggtaag gcaagaggag c 171

<210> 61

<211> 134
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(134)
 <223> n = A,T,C or G

<400> 61
 cggggtgatgc ctcctcaggc tttaggtgtgt ccactcnact cactggcctc ttctccagca 60
 actggtgaan atgtcctcan gaaaancncc acacgcngct caggggtggg tggaancat 120
 canaatcatc nggc 134

<210> 62
 <211> 145
 <212> DNA
 <213> Homo sapien

<400> 62
 agaggggtaca tatgcaacag tatataaagg aagaagtgca ctgagaggaa cttcatcaag 60
 gccatttaat caataagtga tagagtcaag gctcaaccga ggtgtgacgg attccaggtc 120
 ccaagtcctt tactggtacc ctctt 145

<210> 63
 <211> 297
 <212> DNA
 <213> Homo sapien

<400> 63
 tgcactgaga ggaattcaaa gggtttatgc caaagaacaa accagtcctc tgcagcctaa 60
 ctcatctgtt tttgggctgc gaagccatgt agagggcgat caggcagtag atggtccctc 120
 ccacagtcag cgccatggtg gtccggtaaa gcatttggtc aggcaggcct cgtttcaggc 180
 agacgggcac acatcagctt tctggaaaaa cttttgtagc tctggagctt tgtttttccc 240
 agcataatca tacactgtgg aatcggagggt cagtttagtt ggtaaggcaa gaggagc 297

<210> 64
 <211> 300
 <212> DNA
 <213> Homo sapien

<400> 64
 gcactgagag gaacttccaa tactatgttg aataggagtg gtgagagagg gcatccttgt 60
 cttgtgccgg ttttcaaagg gaatgcttcc agcttttgcc cattcagtat aatattaaag 120
 aatgttttac cattttctgt cttgcctgtt tttctgtgtt tttgttggtc tcttcattct 180
 ccatttttag gcctttacat gtttaggaata tatttccttt aatgatactt cacctttggt 240
 atcttttgtg agactctact catagtgtga taagcactgg gttggttaagg caagaggagc 300

<210> 65
 <211> 203
 <212> DNA
 <213> Homo sapien

<400> 65

gctcctcttg	ccttaccaac	tcacccagta	tgtcagcaat	tttatcrgct	ttacctacga	60
aacagcctgt	atccaaacac	ttaacacact	cacctgaaaa	gttcaggcaa	caatgcctt	120
ctcatgggtc	tctctgctcc	agttctgaac	ctttctcttt	tcctagaaca	tgcatttarg	180
tcgatagaag	ttcctctcag	tgc				203

<210> 66
 <211> 344
 <212> DNA
 <213> Homo sapien

<400> 66						
tacggggacc	cctgcattga	gaaagcgaga	ctcactctga	agctgaaatg	ctgttgcoct	60
tgcagtgtg	gtagcaggag	ttctgtgctt	tgtgggctaa	ggctcctgga	tgacccctga	120
catggagaag	gcagagttgt	gtgccccttc	tcattggcctc	gtcaaggcat	catggactgc	180
cacacacaaa	atgccgtttt	tattaacgac	atgaaattga	aggagagAAC	acaattcact	240
gatgtggctc	gtaacctatg	atatggtcac	atacagaggt	gtgattatgt	aaagggttaat	300
tccaccacc	tcattgtgga	actagcctca	atgcaggggt	ccca		344

<210> 67
 <211> 157
 <212> DNA
 <213> Homo sapien

<400> 67						
gcactgagag	gaacttcgta	gggagggttg	actggctgct	gaggaggggg	aacaacaggg	60
taaccagact	gatagccatt	ggatggataa	tatggtgggt	gaggagggac	actacttata	120
gcagagggtt	gtgtatagcc	tgaggaggca	tcacccg			157

<210> 68
 <211> 137
 <212> DNA
 <213> Homo sapien

<400> 68						
gcactgagag	gaacttctag	aaagtgaaag	tctagacata	aaataaaata	aaaattttaa	60
actcaggaga	gacagcccag	cacggtggct	cacgcctgta	atcccagaac	tttgggagcc	120
tgaggaggca	tcacccg					137

<210> 69
 <211> 137
 <212> DNA
 <213> Homo sapien

<400> 69						
cgggtgatgc	ctcctcaggc	tgtattttga	agactatcga	ctggacttct	tatcaactga	60
agaatccgtt	aaaaatacca	gttgtattat	ttctacctgt	caaaatccat	ttcaaatgtt	120
gaagttcctc	tcagtgc					137

<210> 70
 <211> 220
 <212> DNA
 <213> Homo sapien

<220>

<221> misc_feature
 <222> (1)...(220)
 <223> n = A,T,C or G

<400> 70
 agcatgttga gccagacac gcaatctgaa tgagtgtgca cctcaagtaa atgtctacac 60
 gctgcctggg ctgacatggc acaccatcnc gtggagggca casctctgct cngcctacwa 120
 cgagggcant ctcawgaca ggttccaccc accaaactgc aagaggctca nnaagtactr 180
 ccaggggtmya sggacmasgg tgggaytyca ycacwcatct 220

<210> 71
 <211> 353
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(353)
 <223> n = A,T,C or G

<400> 71
 cgttaggggtc tctatccact gctaaacccat acacctgggt aaacaggac catttaacat 60
 tcccanctaa atatgccaag tgacttcaca tgtttatctt aaagatgtcc aaaacgcaac 120
 tgattttctc ccctaaacct gtgatgggtg gatgattaan cctgagtggg ctacagcaag 180
 ttaagtgcaa ggtgctaaat gaangtgacc tgagatacag catctacaag gcagtacctc 240
 tcaacncagg gcaactttgc ttctcanagg gcatttagca gtgtctgaag taatttctgt 300
 attacaactc acggggcggg ggggtgaatat ctantggana gnagacccta acg 353

<210> 72
 <211> 343
 <212> DNA
 <213> Homo sapien

<400> 72
 gcactgagag gaacttccaa tacyatkac agagtgaaca rgcarccyac agaacaggag 60
 aaaatgatty caatctctcc atctgacaaa aggctaatat ccagawtcta awaggactt 120
 aaacaaatth atgagaaaag aacaracaac ctcaawcaaaa agtgggtgaa ggawatgcts 180
 aaargaagac atytattcag ccagtaaaca yatgaaaaaa aggctcatsa tcaactgawca 240
 ttagagaaat gcaaatcaaa accacaatga gataccatct yayrccagtt agaaygggtga 300
 tcattaaaaa stcaggaaac aacagatgct ggacaagggt tca 343

<210> 73
 <211> 321
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(321)
 <223> n = A,T,C or G

<400> 73
 gcactgagag gaacttcaga gagagagaga gagttccacc ctgtacttgg ggagagaaac 60
 agaagggtgag aaagtctttg gttctgaagc agcttctaag atcttttcat ttgcttcatt 120

tcaaagttcc	catgctgcc	aagtgccatc	ctttggggta	ctgttttctg	agctccagt	180
ataactcatt	tatacaagg	agatacccag	aaaaaaagt	agcaaactct	aaaaaggtg	240
cttgagttca	gccttaaata	ccatcttgaa	atgacacaga	gaaagaanga	tggtgggtg	300
gagtggatag	agaccctaac	g				321

<210> 74

<211> 321

<212> DNA

<213> Homo sapien

<400> 74

gcactgagag	gaacttcaga	gagagagaga	gagttccacc	ctgtacttgg	ggagagaaac	60
agaaggtgag	aaagtctttg	gttctgaagc	agcttctaag	atcttttcat	ttgtttcatt	120
tcaaagttcc	catgctgcc	aagtgccatc	ctttggggta	ctgttttctg	agctccagt	180
ataactcatt	tatacaagg	agatacccag	aaaaaaagt	agcaaactct	aaaaaggtg	240
cttgagttca	gycctaaata	ccatcttgaa	atgamacaga	gaaagaagga	tggtgggtg	300
gagtggatag	agaccctaac	g				321

<210> 75

<211> 317

<212> DNA

<213> Homo sapien

<400> 75

gcactgagag	gaacttccac	atgcactgag	aaatgcatgt	tcacaaggac	tgaagtctgg	60
aactcagttt	ctcagttcca	atcctgattc	aggtgtttac	cagctacaca	accttaagca	120
agtcagataa	ccttagcttc	ctcatatgca	aaatgagaat	gaaaagtact	catcgctgaa	180
ttgtttttgag	gattagaaaa	acatctggca	tgcagtagaa	attcaattag	tattcatttt	240
cattcttctta	aattaaacaa	ataggatttt	tagtggtgga	acttcagaca	ccagaaatgg	300
gagtggatag	agaccct					317

<210> 76

<211> 244

<212> DNA

<213> Homo sapien

<400> 76

cgttagggtc	tctatccact	cccactactg	atcaaactct	atttatttaa	ttatttttat	60
catactttta	gttctgggat	acacgtgcag	catgcgcagg	tttgttgc	aggtatacac	120
ttgccatggt	ggtttgctgc	acccatcagt	ccatcatcta	cattaggtat	ttctccta	180
gctatccctc	ccctagcccc	ttacaccccc	aacaggctct	agtgtgtgaa	gttcctctca	240
gtgc						244

<210> 77

<211> 254

<212> DNA

<213> Homo sapien

<400> 77

cgttagggtc	tctatccact	gaaatctgaa	gcacaggagg	aagagaagca	gtyctagtga	60
gatggcaagt	tcwtttacca	cactctttta	catttygttt	agttttaacc	tttatttatg	120
gataataaag	gttaataatta	ataatgattt	attttaaggc	attcccraat	ttgcataatt	180
ctccttttgg	agataccctt	ttatctocag	tgcaagtctg	gatcaaagtg	atasamagaa	240
gttcctctca	gtgc					254

<400>	78						
tacag	gcaaacaatga	actgcaggag	ggtaggtgacg	atcatgatgt	tgccgatggt		60
tggnc	acgaagacgc	actggancac	gtgcttacgt	ccttttgctc	tgtt gatggc		120
gggga	cgcaggacc	ttatgacct	cagaatcttc	acaacgggag	atggc actgg		180
ntccc	antgacacca	gagacacccc	aaccaccagn	atatcantat	attgatgtag		240
gtaga	nggccccctt	gtggaggaaa	gctccatnag	ttggtcatct	tcaacaggat		300
cagtt	tccgatggct	gtgatgggca	tagtcatant	taaccntgtn	tcgaa		355

<400> 79							
gggta	ccagcagaaa	ggttagtata	atcagatagc	atcttatacg	agtaatatgc		60
attttg	aagtgttaatt	gagaaggaaa	atcttagcgt	gctcactgac	ctgcctgtag		120
gtgac	agctaggatg	tgattctcc	agccatcaag	agactgagtc	aagttgttcc		180
ccaga	acagcagact	cagctctgac	attctgattc	gaatgacact	gttcaggaat		240
tcctg	tcgatttagac	tggaagcgtt	gtggcaagtg	aatttgcctg	taacaagcca		300
ctttaa	acatttatatt	gtaaataatg	tgtgtgtgtg	tctgtgtata	tatatatata		360
agtta	tctaagttaa	tttaaaaqtt	gttttgttacc	ctctta			406

[illegible]

<400> 81
 catgc gggtgattcg gcaatccatt atttgctgga ttttgtcatg tgttttgccca 60
 attca taattttatta tgcatttatg cttgtatctc ctaagtcatg gtatataatc 120

catgcttttt	atgttttgtc	tgacataaac	tcttatcaga	gccctttgca	cacagggatt	180
caataaatat	taacacagtc	tacattttatt	tggatgaatat	tgcataatctg	ctgtactgaa	240
agcacattaa	gtaacaaaag	caagtggaga	gaatgaaaag	cactactcac	aacagttatc	300
atgattgcgc	atagacta					318

<210> 82
 <211> 338
 <212> DNA
 <213> Homo sapien

<400> 82						
tcttcaacct	ctactcccac	taatagcttt	ttgatgactt	ctagcaagcc	tcgctaacct	60
cgccttacct	cccactatta	acctactggg	agaactctct	gtgctagtaa	ccacgttctc	120
ctgatcaaat	atcactctcc	tacttacagg	actcaacata	ctagtccacag	ccctatactc	180
cctctacata	tttaccacaa	cacaatgggg	ctcactcacc	caccacatta	acaacataaa	240
accctcattc	acacgagaaa	acaccctcat	gttcatacac	ctatccccc	ttctcctcct	300
atccctcaac	cccgcacatc	ttaccggggt	ttcctctt			338

<210> 83
 <211> 111
 <212> DNA
 <213> Homo sapien

<400> 83						
agccattttac	cacccatcca	caaaaaaaaa	aaaaaaaaag	aaaaatatca	aggaataaaa	60
atagactttg	aacaaaaag	aacatttgct	ggcctgagga	ggcatcacc	g	111

<210> 84
 <211> 224
 <212> DNA
 <213> Homo sapien

<400> 84						
tcgggtgatg	cctcctcagg	ccaagaagat	aaagcttcag	accctaaca	catttccaaa	60
aaggaagaaa	ggagaaaaaa	gggcatcatc	ccggttccga	agggtcagg	aggaggaaat	120
tgaggtggat	tcacgagttg	cggacaactc	ctttgatgcc	aagcgaggtg	cagccggaga	180
ctgggggagag	cgagccaatc	aggttttgaa	gttcctctca	gtgc		224

<210> 85
 <211> 348
 <212> DNA
 <213> Homo sapien

<400> 85						
gcactgagag	gaacttcggt	ggaaacgggt	ttttttcatg	taaggctaga	cagaagaatt	60
ctcagtaact	tccttggtgt	gtgtgtattc	aactcacasa	gttgaacgat	cctttacaca	120
gagcagactt	gtaacactct	twttgtggaa	tttgcaagtg	gagatttcag	scgctttgaa	180
gtsaaaggta	gaaaaggaaa	tatcttccta	taaaaactag	acagaatgat	tctcagaaac	240
tcctttgtga	tgtgtgcgtt	caactcacag	agtttaacct	ttcwtttcat	agaagcagtt	300
aggaaacact	ctgtttgtaa	agtctgcaag	tggatagaga	ccctaacg		348

<210> 86
 <211> 293
 <212> DNA

<213> Homo sapien

<400> 86

```
gcactgagag gaacttcytc gtgwtgktg yattcaactc acagagttga asswtsmttt      60
acabagwkca ggcttkcaaa cactcttttt gtmgaatytc caagwggaka tttsrrccrc      120
tttgwggycw wysktmgaaw mggrwatatc ttcwyatmra amctagacag aaksattctc      180
akaawstyyy ytgtgawgws tgcrttcaac tcacagagkt kaacmwtict kytsatrgag      240
cagttwkgaa actctmtttc tttggattct gcaagtggat agagacccta acg              293
```

<210> 87

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 87

```
ctcctaggct      10
```

<210> 88

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 88

```
agtagttgcc      10
```

<210> 89

<211> 11

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 89

```
ttccgttatg c      11
```

<210> 90

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 90

```
tggtaaaggg      10
```

<210> 91

<211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 91
 tcggtcatag 10

 <210> 92
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 92
 tacaacgagg 10

 <210> 93
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 93
 tggattggtc 10

 <210> 94
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 94
 ctttctaccc 10

 <210> 95
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 95
 ttttggctcc 10

<210> 96
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 96
 ggaaccaatc 10

 <210> 97
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 97
 tcgatacagg 10

 <210> 98
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 98
 ggtactaagg 10

 <210> 99
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 99
 agtctatgcg 10

 <210> 100
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 100
 ctatccatg 10

<210> 101
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 101
 tctgtccaca 10

 <210> 102
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 102
 aagagggtac 10

 <210> 103
 <211> 10
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 103
 cttcaacctc 10

 <210> 104
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 104
 gctcctcttg ccttaccaac 20

 <210> 105
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 105

gtaagtcgag cagtgtgatg 20

<210> 106

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 106

gtaagtcgag cagtctgatg 20

<210> 107

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 107

gacttagtgg aaagaatgta 20

<210> 108

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 108

gtaattccgc caaccgtagt 20

<210> 109

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 109

atggttgatc gatagtggaa 20

<210> 110

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 110
acgggggaccc ctgcattgag 20

<210> 111
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 111
tattctagac cattcgctac 20

<210> 112
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 112
acataaccac tttagcggtc 20

<210> 113
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 113
cgggtgatgc ctctcaggc 20

<210> 114
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 114
agcatgttga gccagacac 20

<210> 115
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 115
gacaccttgt ccagcatctg 20

<210> 116
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 116
tacgctgcaa cactgtggag 20

<210> 117
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 117
cgttagggtc tctatccact 20

<210> 118
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 118
agactgactc atgtccccta 20

<210> 119
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer for amplification from breast tumor cDNA

<400> 119
tcacgctcg gtgactcaag 20

<210> 120
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 120

caagattcca taggctgacc

20

<210> 121

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 121

acgtactggt cttgaaggtc

20

<210> 122

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 122

gacgcttggc cacttgacac

20

<210> 123

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 123

gtatcgacgt agtggctctcc

20

<210> 124

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for amplification from breast tumor cDNA

<400> 124

tagtgacatt acgacgctgg

20

<210> 125

<211> 20

<212> DNA

<213> Artificial Sequence

<220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 125
 cggtgatgc ctcctcaggc 20

 <210> 126
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 126
 atggctattt tcgggggctg aca 23

 <210> 127
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 127
 ccggtatctc ctcgtgggta tt 22

 <210> 128
 <211> 18
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 128
 ctgcctgagc cacaaatg 18

 <210> 129
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Primer for amplification from breast tumor cDNA

 <400> 129
 ccgaggagg aagctagagg aata 24

 <210> 130
 <211> 14
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Primer

<400> 130
tttttttttt ttag

14

<210> 131
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
<223> Predicited Th Motifs (B-cell epitopes)

<400> 131
Ser Ser Gly Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val
1 5 10 15
Gly Ile

<210> 132
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Predicited Th Motifs (B-cell epitopes)

<221> VARIANT
<222> (1)...(22)
<223> Xaa = Any Amino Acid

<400> 132
Gln Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Xaa Ile Glu Val
1 5 10 15
Val Gln Gly His Asp Glu
20

<210> 133
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Predicited Th Motifs (B-cell epitopes)

<400> 133
Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu Ala Tyr Arg Ile Tyr
1 5 10 15
Thr Pro Phe Asp Leu Ser Ala
20

<210> 134

<211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicited HLA A2.1 Motifs (T-cell epitopes)

<400> 134
 Tyr Leu Leu Val Gly Ile Gln Gly Ala
 1 5

<210> 135
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicited HLA A2.1 Motifs (T-cell epitopes)

<400> 135
 Gly Ala Ala Gln Lys Pro Ile Asn Leu
 1 5

<210> 136
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicited HLA A2.1 Motifs (T-cell epitopes)

<221> VARIANT
 <222> (1)...(9)
 <223> Xaa = Any Amino Acid

<400> 136
 Asn Leu Ser Lys Xaa Ile Glu Val Val
 1 5

<210> 137
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Predicited HLA A2.1 Motifs (T-cell epitopes)

<400> 137
 Glu Val Val Gln Gly His Asp Glu Ser
 1 5

<210> 138
 <211> 9
 <212> PRT

<213> Artificial Sequence

<220>

<223> Predicited HLA A2.1 Motifs (T-cell epitopes)

<400> 138

His Leu Gln Glu Ala Tyr Arg Ile Tyr
1 5

<210> 139

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicited HLA A2.1 Motifs (T-cell epitopes)

<400> 139

Asn Leu Ala Phe Val Ala Gln Ala Ala
1 5

<210> 140

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicited HLA A2.1 Motifs (T-cell epitopes)

<400> 140

Phe Val Ala Gln Ala Ala Pro Asp Ser
1 5

<210> 141

<211> 9388

<212> DNA

<213> Homo sapien

<400> 141

gctcgcggcc	gcgagctcaa	ttaaccctca	ctaaagggag	tcgactcgat	cagactgtta	60
ctgtgtctat	gtagaaagaa	gtagacataa	gagattccat	tttgttctgt	actaagaaaa	120
attcttctgc	cttgagatgc	tgtaaatctg	taaccctagc	ccaaccctg	tgctcacaga	180
gacatgtgct	gtgttgactc	aaggttcaat	ggatttaggg	ctatgctttg	ttaaaaaagt	240
gcttgaagat	aatatgcttg	ttaaaagtca	tcaccattct	ctaattctcaa	gtacccaggg	300
acacaataca	ctgcggaagg	ccgcagggac	ctctgtctag	gaaagccagg	tattgtccaa	360
gatttctccc	catgtgatag	cctgagatat	ggcctcatgg	gaagggttaag	acctgactgt	420
ccccagccc	gacatcccc	agcccagacat	ccccagccc	gacacccgaa	aagggtctgt	480
gctgaggagg	attagtaaaa	gaggaaggcc	tctttgcagt	tgaggtaaga	ggaaggcatc	540
tgtctcctgc	tcgtccctgg	gcaatagaat	gtcttggtgt	aaaacccgat	tgtatgttct	600
acttactgag	ataggagaaa	acatccttag	ggctggaggt	gagacacgct	ggcggcaata	660
ctgctcttta	atgcaccgag	atgtttgtat	aagtgcacat	caaggcacag	caccttccct	720
taaacttatt	tatgacacag	agacctttgt	tcacgttttc	ctgctgaccc	tctccccact	780
attaccctat	tggcctgcc	catccccctc	tcogagatgg	tagagataat	gatcaataaa	840
tactgaggga	actcagagac	cagtgtccct	gtaggtcctc	cgtgtgctga	gcgccgtgcc	900

cttgggctca	cttttctttc	tctatacttt	gtctctgtgt	ctctttcttt	tctcagtctc	960
tcgttccacc	tgacgagaaa	taccacaggg	tgtggagggg	caggccaccc	cttcaataat	1020
ttactagcct	gttcgctgac	aacaagactg	gtggtgcaga	aggttgggtc	ttggtgttca	1080
ccgggtggca	ggcatggggc	aggtgggagg	gtctccagcg	cctggtgcaa	atctccaaga	1140
aagtgcagga	aacagcacca	aggggtgattg	taaatthttga	tttggcgcg	caggtagcca	1200
ttccagcgca	aaaatgcgca	ggaaagcttt	tgctgtgctt	gtaggcaggt	aggccccaag	1260
cacttcttat	tggctaattg	ggaggggaacc	tgacatcca	ttggctgaaa	tctccgtcta	1320
tttgaggctg	actgagcgcg	ttcctttctt	ctgtgttgcc	tgaaacgga	ctgtctgcct	1380
agtaacatct	gatcacgttt	cccattggcc	gccgtttccg	gaagcccgcc	ctcccatttc	1440
cggaaagcctg	gcgcaagggt	ggctctgcagg	tggcctccag	gtgcaaagt	ggaagtgtga	1500
gtcctcagtc	ttgggctatt	cgccacagtg	cctgccggac	atgggacgct	ggagggctag	1560
cagcgtggag	tcctggcctt	ttgcgtccac	gggtgggaaa	ttggccattg	ccacggcggg	1620
aactgggact	caggctgccc	cccggcgctt	tctcatccgt	ccaccggact	cgtgggcgct	1680
cgcactggcg	ctgatgtagt	ttcctgacct	ctgaccgta	ttgtctccag	attaaaggta	1740
aaaacggggc	tttttcagcc	cactcgggta	aaacgccttt	tgatttctag	gcaggtgttt	1800
tgttgacgc	ctgggaggga	gtgaccgcga	gggtgagggt	tattaaaata	cattcctggt	1860
ttatgttatg	tttataataa	agcaccocaa	cctttacaaa	atctcacttt	ttgccagttg	1920
tattatttag	tggactgtct	ctgataagga	cagccagtta	aaatggaatt	ttgttgttgc	1980
taattaaacc	aatttttagt	tttggtgttt	gtcctaatag	caacaacttc	tcaggcttta	2040
taaaaccata	tttcttgggg	gaaatthctg	tgtaaggcac	agcgagttag	tttggaattg	2100
ttttaaaagga	agtaagttcc	tgggtttgat	atcttagtag	tgtaatgcc	aacctggttt	2160
ttactaacc	tgtttttaga	ctctcccttt	ccttaaatca	cctagccttg	tttccacctg	2220
aattgactct	cccttagcta	agagcgccag	atggactcca	tcttggtct	ttcactggca	2280
gccccttct	caaggactta	acttgtgcaa	gctgactccc	agcacatcca	agaatgcaat	2340
taactgttaa	gatactgtgg	caagctatat	ccgcagttcc	gaggaattca	tccgattgat	2400
tatgcccata	agccccgct	ctatcacctt	gtaataatct	taaagccct	gcacctggaa	2460
ctattaactt	tctgttaacc	atttatcctt	ttaaactttt	tgcttacttt	atttctgtaa	2520
aattgtttta	actagacctc	ccctcccttt	tctaaaccaa	agtataaaa	aagatctagc	2580
cccttcttca	gagcggagag	aattttgagc	attagccatc	tcttgggcg	cagctaaata	2640
aatggacttt	taatttgtct	caaagtgtgg	cgttttctct	aactcgctca	ggtacgacat	2700
ttggaggccc	cagcgagaaa	cgtcaccggg	agaaacgtca	ccgggcgaga	gccgggccc	2760
ctgtgtgctc	ccccggaagg	acagccagct	tgtagggggg	agtgccacct	gaaaaaaaa	2820
tttccaggtc	cccaaagggt	gaccgtcttc	cggaggacag	cggatcgact	accatgcggg	2880
tgccaccaa	aattccacct	ctgagtcctc	aactgctgac	cccgggtca	ggtaggtcag	2940
atttgacttt	ggttctggca	gagggaaagc	accctgatga	gggtgtccct	cttttgactc	3000
tgccattttc	tctaggatgc	tagagggtag	agccctggtt	ttctgttaga	cgctctgtg	3060
tctctgtctg	ggaggggaag	ggccctgaca	ggggccatcc	cttgagtcag	tccacatccc	3120
aggatgctgg	gggactgagt	cctggtttct	ggcagactgg	tctctctctc	tctctttttc	3180
tatctctaata	ctttccttgt	ttaggtttct	tggagaatct	ctgggaaaga	aaaaagaaaa	3240
actgttataa	actctgtgtg	aatggtgaat	gaatggggga	ggacaagggc	ttgcgcttgt	3300
cctccagttt	gtagctccac	ggcgaaagct	acggagttca	agtgggccct	cacctgcggt	3360
tccgtggcga	cctcataagg	cttaaggcag	catccggcat	agctcgatcc	gagccggggg	3420
tttataccgg	cctgtcaatg	ctaagaggag	cccaagctcc	ctaaggggga	gcggccaggc	3480
gggcatctga	ctgatcccat	cacgggaccc	ctcccccttg	tttgtctaaa	aaaaaaaaaa	3540
gaagaaaactg	tcataactgt	ttacatgccc	taggggtcaac	tgtttgtttt	atgtttattg	3600
ttctgttcgg	tgtctattgt	cttggttagt	ggttgtcaag	gttttgcattg	tcaggacgtc	3660
gatattgccc	aagacgtctg	ggtaagaact	tctgcaagg	ccttagtgct	gattttttgt	3720
cacaggaggt	ttaaatttctc	atcaatcatt	taggctggcc	accacagtcc	tgtcttttct	3780
gccagaagca	agtcagggtg	tgttacggga	atgagtgtaa	aaaaacattc	gcctgattgg	3840
gatttctggc	accatgatgg	ttgtatttag	attgtcatac	cccacatcca	ggttgattgg	3900
acctcctcta	aactaaactg	gtgggtgggt	caaaacagcc	accctgcaga	tttcttgcct	3960
cacctctttg	gtcattctgt	aacttttctt	gtgcccttaa	atagcacact	gtgtagggaa	4020
acctaccctc	gtactgcttt	acttcgttta	gattcttact	ctgttcctct	gtggctactc	4080
tcccatctta	aaaacgatcc	aagtggctct	tttctctctc	cctgccccct	acccacaca	4140

tctcgttttc	cagtgcgaca	gcaagttcag	cgtctccagg	acttggtctt	gctctcactc	4200
cttgaaccct	taaaagaaaa	agctgggttt	gagctatttg	cctttgagtc	atggagacac	4260
aaaaggtatt	tagggtacag	atctagaaga	agagagagaa	cacctagatc	caactgacct	4320
aggagatctc	gggttggtct	ctagtcctcc	tccctcaatc	ttaaagctac	agtgatgtgg	4380
caagtgggat	ttagctgttg	tggtttttct	gctctttctg	gtcatgttga	ttctgttctt	4440
tcgatactcc	agccccccag	ggagtgaagt	tctctgtctg	tgctgggttt	gatatctatg	4500
ttcaaattct	attaaattgc	cttcaaaaaa	aaaaaaaaaa	gggaaacact	tcctcccagc	4560
cttgtaaggg	ttggagccct	ctccagtata	tgctgcagaa	tttttctctc	ggtttctcag	4620
aggattatgg	agtccgcctt	aaaaaaggca	agctctggac	actctgcaaa	gtagaatggc	4680
caaagttttg	agttgagtgg	ccccttgaag	ggtcactgaa	cctcacaatt	gttcaagctg	4740
tgtggcgggt	tgttactgaa	actcccggcc	tccctgatca	gtttccctac	attgatcaat	4800
ggctgagttt	ggtcaggagc	accccttcca	tggctccact	catgcacccat	tcataatttt	4860
acctccaagg	tcctcctgag	ccagaccgtg	ttttcgcttc	gacctcagc	cggttcagct	4920
cgccctgtac	tgctctcttc	tgaagaagag	gagagtctcc	ctcaccagc	cccaccgcct	4980
taaaaccagc	ctactccctt	agggtcaccc	catgtctcct	cggctatgtc	ccctgtaggc	5040
tcatacccca	ttgcctcttg	gttgcaaccg	tgggtggagg	aagtagcccc	tctactacca	5100
ctgagagagg	cacaagtccc	tctgggtgat	gagtgtccca	cccccttcc	ggtttatgtc	5160
ccttctttct	acttctgact	tgtataattg	gaaaacccat	aatcctccct	tctctgaaaa	5220
gccccaggct	ttgacctcac	tgatggagtc	tgtactctgg	acacattggc	ccacctggga	5280
tgactgtcaa	cagctccctt	tgaccctttt	cacctctgaa	gagagggaaa	gtatccaaag	5340
agaggccaaa	aagtacaacc	tcacatcaac	caataggccg	gaggaggaa	ctagaggaat	5400
agtgattaga	gacccaattg	ggacctaat	gggacccaaa	tttctcaagt	ggaggggaga	5460
cttttgacga	tttccacccg	tatctcctcg	tgggtattca	gggagctgct	cagaaacct	5520
taaactgttc	taaggcgact	gaagtcgtcc	aggggcatga	tgagtcacca	ggagtgtttt	5580
tagagcacct	ccaggaggct	tatcggattt	acacccttt	tgacctggca	gccccgaaa	5640
atagccatgc	tcttaatttg	gcattttgtg	ctcaggcagc	cccagatagt	aaaaggaaac	5700
tccaaaaact	agagggaatt	tgctggaaat	aataccagtc	agcttttaga	gatagcctaa	5760
aagggttttg	acagtcaaga	ggttgaaaaa	caaaaacaag	cagctcaggc	agctgaaaaa	5820
agccactgat	aaagcatcct	ggagtatcag	agtttactgt	tagatcagcc	tcatttgact	5880
tcccctccca	catggtgttt	aaatccagct	acactacttc	ctgactcaaa	ctccactatt	5940
cctgttcatg	actgtcagga	actgttggaa	actactgaaa	ctggccgacc	tgatcttcaa	6000
aatgtgcccc	taggaaaggt	ggatgccacc	gtgttcacag	acagtagcag	cttccctcag	6060
aagggaactac	gaaaggcccg	tcagctgttt	accatggaga	cagatgtgtt	gtgggctcag	6120
gctttaccag	caaacacctc	agcacaaaag	gctgaattga	tcgccctcac	tcaggctctc	6180
cgatggggta	aggatattaa	cgtaaacact	gacagcaggt	acgcctttgc	tactgtgcat	6240
gtacgtggag	ccatctacca	ggagcgtggg	ctactcacct	cagcaggtgg	ctgtaatcca	6300
ctgtaaagga	catcaaaaag	aaaacacggc	tgttgcccgt	ggtaaccaga	aaagctgattc	6360
agcagctcaa	gatgcagtgt	gactttcagt	cacgcctcta	aacttgctgc	ccacagtctc	6420
ctttccacag	ccagatctgc	ctgacaatcc	cgcatactca	acagaagaag	aaaactggcc	6480
tcagaactca	gagccaataa	aaatcaggaa	ggttgggtgga	ttcttctctga	ctctagaatc	6540
ttcatacccc	gaactcttgg	gaaaacttta	atcagtcacc	tacagtctac	caccttatta	6600
ggaggagcaa	agctacctca	gctcctcccg	agcgttttta	agatcccca	tcttcaaagc	6660
ctaacagatc	aagcagctct	ccggtgcaca	acctgcgccc	aggtaaagtgc	caaaaaaggt	6720
cctaaaccca	gcccaggcca	ccgtctccaa	gaaaactcac	caggagaaaa	gtgggaaatt	6780
gactttacag	aagtaaaaac	acaccgggct	gggtacaaat	accttctagt	actggtagac	6840
accttctctg	gatggactga	agcatttgc	acaaaaaacg	aaactgtcaa	tatggtagtt	6900
aagtttttac	tcaatgaaat	catccctcga	cgtgggctgc	ctgttgccat	agggctctgat	6960
aatggaccgg	ccttcgcctt	gtctatagtt	tagtcagtc	gtaaggcgtt	aaacattcaa	7020
tggaagctcc	atttgtccta	tcgacccag	agctctgggc	aagtagaacg	catgaactgc	7080
accctaaaaa	acactcttac	aaaattaatc	ttagaaaccg	gtgtaaattg	tgtaagtctc	7140
cttcccttag	ccctacttag	agtaagggtg	accccttact	gggctgggtt	cttacctttt	7200
gaaatcatgt	atgggagggc	gctgcctatc	ttgcctaagc	taagagatgc	ccaattggca	7260
aaaatatcac	aaactaattt	attacagtac	ctacagtctc	cccaacaggt	acaagatata	7320
atcctgccac	ttgttcgagg	aacccatccc	aatccaattc	ctgaacagac	agggccctgc	7380

cattcattcc	cgccagggtga	cctgttgttt	gttaaaaagt	tccagagaga	aggactccct	7440
cctgcttgga	agagacctca	caccgtcatc	acgatgccaa	cggctctgaa	ggtggatggc	7500
attcctgcgt	ggattcatca	ctcccgcac	aaaaaggcca	acggagccca	actagaaaca	7560
tgggtcccca	gggctgggtc	aggccctta	aaactgcacc	taagttgggt	gaagccatta	7620
gattaattct	ttttcttaat	tttgtaaaac	aatgcatagc	ttctgtcaaa	cttatgtatc	7680
ttaagactca	atataacccc	cttggtataa	ctgaggaatc	aatgatttga	ttccccaaaa	7740
acacaagtgg	ggaatgtagt	gtccaacctg	gtttttacta	accctgtttt	tagactctcc	7800
ctttccttta	atcactcagc	cttgtttcca	cctgaattga	ctctccotta	gctaagagcg	7860
ccagatggac	tccatcttgg	ctctttcact	ggcagccgct	tcctcaagga	cttaacttgt	7920
gcaagctgac	tcccagcaca	tccaagaatg	caattaactg	ataagatact	gtggcaagct	7980
atatccgcag	ttcccaggaa	ttcgtccaat	tgattacacc	caaaagcccc	gcgtctatca	8040
ccttgtaata	atcttaaaagc	ccctgcacct	ggaactatta	acgttcctgt	aaccatttat	8100
ccttttaact	tttttgcta	ctttattttct	gtaaaattgt	tttaactaga	ccccccctct	8160
cctttctaaa	ccaaagtata	aaagcaaata	tagcccttcc	ttcaggccga	gagaatttgc	8220
agcgttagcc	gtctcttggc	caccagctaa	ataaacggat	tcttcatgtg	tctcaaagtg	8280
tggcgttttc	tctaactcgc	tcaggtagca	ccgtggtagt	attttcccca	acgtcttatt	8340
tttagggcac	gtatgtagag	taacttttat	gaaagaaacc	agttaaggag	gttttgggat	8400
ttcctttatc	aactgtaata	ctgggtttga	ttattttatt	atttatttat	tttttttgag	8460
aaggagtttc	actcttgttg	cccaggctgg	agtgcaatgg	tgcgatcttg	gctcactgca	8520
acttccgcct	cccaggttca	agcgattctc	ctgcctcagc	ctcgagagta	gctgggatta	8580
taggcatgcg	ccaccacacc	cagctaattt	tgtattttta	gtaaagatgg	ggtttcttca	8640
tgttggtcaa	gctgggtctg	aactccccgc	ctcgggtgat	ctgccgcct	cggcctccga	8700
aagtgctggg	attacagggt	tgatccacca	caccagcccg	atttatatgt	atataaatca	8760
cattcctcta	accaaagtgt	agtgtttcct	tccatcttga	atataggctg	tagaccccg	8820
gggtatggga	cattgttaac	agtgagacca	cagcagtttt	tatgtcatct	gacagcatct	8880
ccaaatagcc	ttcatggttg	tactgtcttc	ccaagacaat	tccaaataac	acttcccagt	8940
gatgacttgc	tactgtctat	tgttacttaa	tgtgttaagg	tggctgttac	agacactatt	9000
agtatgtcag	gaattacacc	aaaatttagt	ggctcaaaca	atcattttat	tatgtatgtg	9060
gattctcatg	gtcagggtcag	gatttcagac	agggcacaag	ggtagcccac	ttgtctctgt	9120
ctatgatgtc	tggcctcagc	acaggagact	caacagctgg	ggtctgggac	catttgaggg	9180
cttgttccct	cacatctgat	acctggcttg	ggatgttggg	agaggggggt	agctgagact	9240
gagtgcctat	atgtagtggt	tccatattgg	cttgacttcc	ttacagcctg	gcagcctcag	9300
ggtagtcaga	attcttagga	ggcacagggc	tccagggcag	atgctgaggg	gtcttttatg	9360
aggtagcaca	gcaaattccac	ccaggatc				9388

<210> 142

<211> 419

<212> DNA

<213> Homo sapien

<400> 142

tgtaagtcga	gcagtgtgat	ggaaggaatg	gtctttggag	agagcatatc	catctcctcc	60
tcactgcctc	ctaattgtcat	gaggtacact	gagcagaatt	aaacagggta	gtcttaacca	120
cactattttt	agctaccttg	tcaagctaata	gggttaaagaa	cacttttgggt	ttacacttgt	180
tgggtcatag	aagttgcttt	cgcacatcac	gcaataagtt	tgtgtgtaat	cagaaggagt	240
taccttatgg	tttcagtgtc	attcttttagt	taacttggga	gctgtgtaat	ttaggctttg	300
cgtattatct	cacttctgtt	ctccacttat	gaagtgattg	tgtgttcgcg	tgtgtgtgcg	360
tgcgcagtgt	cttccggcag	ttaacataag	caaataccca	acatcacact	gctcgactt	419

<210> 143

<211> 402

<212> DNA

<213> Homo sapien

<400> 143

tgtaagtcga	gcagtgtgat	gtccactgca	gtgtgttgct	gggaacagtt	aatgagcaaa	60
ttgtatacaa	tggctagtag	attgaccggg	atttggtgaa	gctggtgagt	gttatgactt	120
agcctgttag	actagtctat	gcacatggct	ctgggtcaact	accgctctct	catttctcca	180
gataaatccc	ccatgcttta	tattctcttc	caaacatact	atcctcatca	ccacatagtt	240
cctttgttaa	tgctttgttc	tagactttcc	cttttctggt	ttcttattca	aacctatata	300
tctttgcata	gattgtaaat	tcaaagtccc	tcagggtgca	ggcagttcat	gtaagggagg	360
gaggctagcc	agtgagatct	gcacacact	gctcgactta	ca		402

<210> 144

<211> 224

<212> DNA

<213> Homo sapien

<400> 144

tcgggtgatg	cctcctcagg	ccaagaagat	aaagcttcag	accctaaca	catttccaaa	60
aaggaagaaa	ggagaaaaaa	gggcatcatc	cccgttccga	agggtcaggg	aggaggaaat	120
tgaggtggat	tcacgagttg	cggacaactc	ctttgatgcc	aagcgaggtg	cagccggaga	180
ctggggagag	cgagccaatc	aggttttgaa	gttcctctca	gtgc		224

<210> 145

<211> 111

<212> DNA

<213> Homo sapien

<400> 145

agccattttac	cacccatcca	caaaaaaaaa	aaaaaaaaag	aaaaatatca	aggaataaaa	60
atagactttg	aacaaaaagg	aacattttgct	ggcctgagga	ggcatcaccc	g	111

<210> 146

<211> 585

<212> DNA

<213> Homo sapien

<400> 146

tagcatgttg	agcccagaca	cttgtagaga	gaggaggaca	gttagaagaa	gaagaaaagt	60
ttttaaatgc	tgaaagttac	tataagaaag	ctttggcttt	ggatgagact	tttaaagatg	120
cagaggatgc	tttgagaaa	cttcataaat	atatgcagg	gattccttat	ttcctcctag	180
aaatttagtg	atatttgaaa	taatgcccaa	acttaatttt	ctcctgagga	aaactattct	240
acattactta	agtaaggcat	tatgaaaagt	ttcttttttag	gtatagtttt	tcctaattgg	300
gtttgacatt	gcttcatagt	gcctctgttt	ttgtccataa	tcgaaagtaa	agatagctgt	360
gagaaaacta	ttacctaaat	ttgggtatgt	gttttgagaa	atgtccttat	aggagagctca	420
cctggtggtt	tttaaattat	tgttgctact	ataattgagc	taattataaa	aacctttttg	480
agacatatatt	taaattgtct	tttcctgtaa	tactgatgat	gatgttttct	catgcatttt	540
cttctgaatt	gggaccattg	ctgctgtgtc	tgggctcaca	tgcta		585

<210> 147

<211> 579

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(579)

<400> 147

<210> 148

<212> DNA

<213> Homo sapien

<400> 148

tgacaccttg	tccagcatct	gcaagccagg	aagagagtcc	tcaccaagat	ccccaccccg	60
ttggcaccag	gatcttggac	ttccaatctc	cagaactgtg	agaaataagt	atttgtcgct	120
aaataaatct	ttgtggtttc	agatattttg	ctatagcaga	tcaggctgac	taagagaaac	180
cccataagag	ttacatactc	attaatctcc	gtctctatcc	ccagggtctca	gatgctggac	240
aagtgatca						249

<210> 149

<211> 255

<212> DNA

<213> Homo sapien

<400> 149

tgacaccttg	tccagcatct	gctattttgt	gactttttta	taatagccat	tctgactggg	60
gtgagatggg	aactcattgt	gggtttgggc	tgcattttctc	taatgatcag	tgatattaag	120
ctttttttaa	atatgctttg	tgaccacatg	tatatcatct	tttgagaagt	gtctgttcac	180
atcctttggc	cactttttta	ttttttttatc	ttgtaaattt	gtttaatttc	cttacagatg	240
ctggacaagg	tgtca					255

$\langle 210 \rangle$ 150

<211> 318

<212> DNA

<213> Homo sapien

<400> 150

ttacgctgca	acactgtgga	ggccaagctg	ggatcacttc	ttcattctaa	ctggagagga	60
gggaagttca	agtccagcag	aggggtgggtg	ggtagacagt	ggcactcaga	aatgtcagct	120
ggaccctgt	ccccgcatag	gcaggacagc	aaggctgtgg	ctctccaggg	ccagctgaag	180
aacaggacac	tgtctccgct	gccacaaagc	gtcagagact	cccattcttg	aagcacggcc	240
ttcttggtc	tctcgactt	ccctgtttctg	ttagagacct	ggttatagac	aaggcttctc	300
cacagtgttg	cacgqtaa					318

<210> 151

$\langle 211 \rangle$ 323

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(323)

<223> n = A,T,C or G

<400> 151

tnacgcngcn	acnntgtaga	ganggnaagg	cnttccccac	attnccccctt	catnanagaa	60
ttattcnacc	aagnntgacc	natgccnttt	atgacttaca	tgcnnactnc	ntaatctgtn	120
tcnngcctta	aaagcnnntc	cactacatgc	ntcancactg	tntgtgtnac	ntcatnaact	180
gtcngnaata	ggggcncata	actacagaaa	tgcanttcac	actgcttcca	ntgccatcng	240
cgtgtggcct	tnoctactct	tcttntattc	caagtagcat	ctctggantg	cttccccact	300
ctccacattg	ttgcagcnat	aat				323

<210> 152

<211> 311

<212> DNA

<213> Homo sapien

<400> 152

tcaagattcc	ataggctgac	cagtcacaagg	agagttgaaa	tcatgaagga	gagtctatct	60
ggagagagct	gtagttttga	gggttgcaaa	gacttaggat	ggagttggtg	ggtgtggtta	120
gtctctaagg	ttgattttgt	tcataaaattt	catgcctga	atgccttgct	tgccctacccc	180
tggtccaagc	cttagtgaac	acctaaaagt	ctctgtcttc	ttgctctcca	aacttctcct	240
gaggatttcc	tcagattgtc	tacattcaga	tcgaagccag	ttggcaaaca	agatgcagtc	300
cagagggtca	g					311

<210> 153

<211> 332

<212> DNA

<213> Homo sapien

<400> 153

caagattcca	taggctgacc	aggaggctat	tcaagatctc	tggcagttga	ggaagtctct	60
ttaagaaaat	agtttaaaca	atttggtaaa	atTTTTctgt	cttacttcat	ttctgtagca	120
gttgatatct	ggctgtcctt	tttataatgc	agagtgggaa	ctttccctac	catgtttgat	180
aaatgttgct	caggctccat	tgccaataat	gtgttggtcca	aaatgcctgt	ttagtTTTTa	240
aagacggaac	tccacccttt	gcttgggtct	aagtatgtat	ggaatgttat	gataggacat	300
agtagtagcg	gtggtcagcc	tatggaatct	tg			332

<210> 154

<211> 345

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(345)

<223> n = A,T,C or G

<400> 154

tcaagattcc	ataggctgac	ctggacagag	atctcctggg	tctggcccag	gacagcaggc	60
tcaagctcag	tggagaaggt	ttocatgacc	ctcagattcc	cccaaacctt	ggattgggtg	120

```

acattgcatc tcctcagaga gggaggagat gtangtctgg gcttccacag ggacctggta 180
ttttaggatc agggtagcgc tggcctgagg cttggatcat tcanagcctg ggggtggaat 240
ggctggcagc ctgtggcccc attgaaatag gctctggggc actccctctg ttcctanttg 300
aacttgggta aggaacagga atgtggtcan cctatggaat cttga 345

```

```

<210> 155
<211> 295
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(295)
<223> n = A,T,C or G

```

```

<400> 155
gacgcttggc cacttgacac attaaacagt tttgcataat cactancatg tattttctagt 60
ttgctgtctg ctgtgatgcc ctgcctgat tctctggcgt taatgatggc aagcataatc 120
aaacgctgtt ctgttaattc caagttataa ctggcattga ttaaagcatt atctttcaca 180
actaaactgt tcttcatana acagcccata ttattatcaa attaagagac aatgtattcc 240
aatatccttt anggccaata tatttnatgt cccttaatta agagctactg tccgt 295

```

```

<210> 156
<211> 406
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(406)
<223> n = A,T,C or G

```

```

<400> 156
gacgcttggc cacttgacac tgcagtggga aaaccagcat gagccgctgc cccaaggaa 60
cctcgaagcc caggcagagg accagccatc ccagcctgca ggtaaagtgt gtcacctgtc 120
aggtgggctt ggggtgagtg ggtgggggaa gtgtgtgtgc aaaggggggtg tnaatgtnta 180
tgcgtgtgag catgagtgat ggctagtgtg actgcatgtc agggagtgtg aacaagcgtg 240
cgggggtgtg tgtgcaagtg cgtatgcata tgagaatatg tgtctgtgga tgagtgcatt 300
tgaaagtctg tgtgtgtgcg tgtggtcatg anggtaantt antgactgcg caggatgtgt 360
gagtgtgcat ggaacactca ntgtgtgtgt caagtggccn ancgtc 406

```

```

<210> 157
<211> 208
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(208)
<223> n = A,T,C or G

```

```

<400> 157
tgacgcttgg ccacttgaca cactaaaggg tgttactcat cactttcttc tctcctcggt 60
ggcatgtgag tgcatctatt cacttggcac tcatttgttt ggcagtgact gtaanccana 120

```

tctgatgcat acaccagctt gtaaattgaa taaatgtctc taatactatg tgctcacaat 180
 anggtanggg tgaggagaag gggagaga 208

<210> 158
 <211> 547
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(547)
 <223> n = A,T,C or G

<400> 158
 cttcaacctc cttcaacctc cttcaacctc ctggattcaa acaatcatcc cacctcagac 60
 tccttagtag ctgagactac agactcacgc cactacatct ggctaaatth ttgtagagat 120
 agggtttcat catgttgccc tggttggtct caaactcctg acctcaagca atgtgcccac 180
 ctacgcctcc caaagtgtct ggattacagg cataagccac catgcccagt coatntttaa 240
 tctttcctac cacattctta ccacactttc ttttatgttt agatacataa atgcttacca 300
 ttatgataca attgccaca gtattaagac agtaacatgc tgcacagggt tgtagcctag 360
 gaacagtagg caataccaca tagcttaggt gtgtggtaga ctataccatc taggtttgtg 420
 taagttacac tttatgtctg ttacacaatg acaaaacat ctaatgatgc atttctcaga 480
 atgtatcctt gtcagtaagc tatgatgtac agggaacact gcccaaggac acagatattg 540
 tacctgt 547

<210> 159
 <211> 203
 <212> DNA
 <213> Homo sapien

<400> 159
 gctcctcttg ccttaccac tcacccagta tgtcagcaat tttatcrgct ttacctacga 60
 aacagcctgt atccaaacac ttaacacact cacctgaaaa gttcaggcaa caatcgctt 120
 ctcatgggtc tctctgtctc agttctgaac ctttctcttt tctagaaca tgcatttarg 180
 tcgatagaag ttcctctcag tgc 203

<210> 160
 <211> 402
 <212> DNA
 <213> Homo sapien

<400> 160
 tgtaagtcga gcagtgtgat ggggtggaaca ggggttgtaag cagtaattgc aaactgtatt 60
 taaacaataa taataatatt tagcatttat agagcacttt atatcttcaa agtacttgca 120
 aacattayct aattaaatc cctctctgat tataatctgg atacaaatgc acttaaaactc 180
 aggacagggt catgagaraa gtatgcattt gaaagtgtgt gctagctatg ctttaaaaac 240
 ctatacaatg atgggraagt tagagttcag attctgttgg actgtttttg tgcatttcag 300
 ttacgcctga tggcagaatt agatcatatc tgcactcgat gactytgctt gataacttat 360
 cactgaaatc tgagtgttga tcatcacact gctcgactta ca 402

<210> 161
 <211> 193
 <212> DNA
 <213> Homo sapien

```

<400> 161
agcatgttga gccagacac tgaccaggag aaaaaccaac caatagaaac acgcccagac      60
actgaccagg agaaaaacca accaataaaa acaggcccgg acataagaca aataataaaa      120
ttagcggaca aggacatgaa aacagctatt gtaagagcgg atatatgtgt gtgtgtcttg      180
gctcaacatg cta                                                         193

```

```

<210> 162
<211> 147
<212> DNA
<213> Homo sapien

```

```

<400> 162
tggttagccc agacactgac caggagaaaa accaaccaat aaaaacaggc ccggacataa      60
gacaaataat aaaattagcg gacaaggaca tgaaaacagc tattgtaaga gcgcatatag      120
tggtgtgtgt ctgggctcaa catgcta                                         147

```

```

<210> 163
<211> 294
<212> DNA
<213> Homo sapien

```

```

<400> 163
tagcatgttg agcccagaca caaatctttc cttaagcaat aaatcatttc tgcataatgtt      60
tttaaaacca cagctaagcc atgattattc aaaaggacta ttgtattggg tattttgatt      120
tgggttctta tctccctcac attatcttca tttctatcat tgacctctta tcccagagac      180
tctcaaactt ttatgttata caaatcacat tctgtctcaa aaaatatctc acccattct      240
cttctgtttc tgcgtgtgta tgtgtgtgtg tgtgtgtctg ggctcaacat gcta         294

```

```

<210> 164
<211> 412
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(412)
<223> n = A,T,C or G

```

```

<400> 164
cgggattggc tttgagctgc agatgctgcc tgtgaccgca cccggcgtgg aacagaaagc      60
cacctggctg caagtgcgcc agagccgccc tgactacgtg ctgctgtggg gctggggcgt      120
gatgaactcc accgccctga aggaagccca ggccaccgga taccgcccg acaagatgta      180
cggcgtgtgg tgggccggtg cggagcccca tgtgcgtgac gtgggcgaag gcgccaaggg      240
ctacaacgcg ctggctctga acggctacgg cacgcagtcc aaggtgatcc angacatcct      300
gaaacacgtg cagacaagg gccagggcac ggggcccaaa gacgaagtgg gctcgtgtgt      360
gtacaccgcg gccgtgatca tccagatgct ggacaagggt tcaatcacta at           412

```

```

<210> 165
<211> 361
<212> DNA
<213> Homo sapien

```

```

<400> 165

```



```

ttgacacctt gtccagcatc tgcatctgat gagagcctca gatggctacc actaatggca      60
gaaggcaaaag gagaacaggc attgtatggc aagaaaggaa gaaagagaga ggggagaaaag      120
gtgctagggtt cttttcaaca accagttctt gatggaactg agagtaagag ctcaaggcca      180
ggtgtggtga ctccaaccag taatccaac attttaggag gctgaggcag gcagatgtct      240
tgaccccatg agtttgtgac cagcctgaac aacatcatga gactccatct ctacaataat      300
tacaaaaatt aatcaggcat tgtggtatgc cctgtagtcc cagatgctgg acaaggtgtc      360
a

```

```

<210> 166
<211> 427
<212> DNA
<213> Homo sapien

```

```

<400> 166
twgactgact catgtccctt acacccaact atcttctcca ggtggccagg catgatagaa      60
tctgatcctg acttagggga atattttctt tttacttccc atcttgattc cctgccggtg      120
agtttcctgg ttcagggtaa gaaaggagct caggccaaag taatgaacaa atccatcctc      180
acagacgtac agaataagag aacwtggacw tagccagcag aacmcaaktg aaamcagaac      240
mcttamctag gatracaamc merraratar ktgcyccmc wtataataga aaccaaactt      300
gtatctaatt aaatatattat ccacygtcag ggcatttagt gttttgataa atacgctttg      360
gctaggattc ctgagggttag aatggaaraa caattgcamc gagggtaggg gacatgagtc      420
aktctaa

```

```

<210> 167
<211> 500
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(500)
<223> n = A,T,C or G

```

```

<400> 167
aacgtcgcac gctcccgccc gccatggccc cgggatagac tgactcatgt cccctaagat      60
agaggagaca cctgctagggt gtaaggagaa gatggttagg tctacggagg ctccagggtg      120
ggagttagttc cctgctaagg gagggtagac tgttcaacct gttcctgctc cggcctccac      180
tatagcagat gcgagcagga gtaggagaga gggaggtaag agtcagaagc ttatgttgtt      240
tatgcgggga aacgccttat cgggggcagc cragttatta ggggacantr tagwyartcw      300
agntagcatc caaagcgngg gagttntccc atatggttgg acctgcaggc ggccgcatta      360
gtgattagca tgtgagcccc agacacgcat agcaacaagg acctaaactc agatcctgtg      420
ctgattactt aacatgaatt attgtattta ttaacaact ttgagttatg aggcatatta      480
ttaggtccat attacctgga

```

```

<210> 168
<211> 358
<212> DNA
<213> Homo sapien

```

```

<400> 168
ttcatcgctc ggtgactcaa gcctgtaatc ccagaacttt gggaggccga ggggagcaga      60
tcacctgagg ttgggagttt gagaccagcc tggccaacat ggtgacaacc cgtctctgct      120
aaaaatacaa aaattagcca agcatggttg catgcacttg taatcccagc tactcgggag      180
gctgaggcag gagaatcact tgaggccagg aggcagaggt tgcagtgagg cagaggttga      240

```

gatcatgcc	ctgcactcca	gcctgggcaa	cagagtaaga	ctccatctca	aaaaaaaaa	300
aaaaaaaaa	tgatcagagc	cacaaataca	gaaaaccttg	agtcaccgag	cgatgaaa	358

<210> 169
 <211> 1265
 <212> DNA
 <213> Homo sapien

<400> 169

ttctgtccac	accaatctta	gagctctgaa	agaatttgtc	tttaaataatc	ttttaaatagt	60
aacatgtatt	ttatggacca	aattgacatt	ttcgactatt	ttttcccaaa	aaaagtcagg	120
tgaatttcag	cacactgagt	tgggaatttc	ttatcccaga	agwccggcacg	agcaatttca	180
tattttattta	agattgattc	catactccgt	tttcaaggag	aatccctgca	gtctccttaa	240
aggtagaaca	aatactttct	atTTTTTTTT	caccattgtg	ggattggact	ttaagaggtg	300
actctaaaaa	aacagagaac	aaatatgtct	cagttgtatt	aagcacggac	ccatattatc	360
atattcactt	aaaaaaatga	tttcctgtgc	accttttggc	aacttctctt	ttcaatgtag	420
ggaaaaactt	agtcaccctg	aaaaccacaca	aaataaataa	aacttgtaga	tgtgggcaga	480
argtttgggg	gtggacattg	tatgtgttta	aattaaacc	tgtatcactg	agaagctggt	540
gtatgggtca	gagaaaaatga	atgcttagaa	gctgttcaca	tcttcaagag	cagaagcaaa	600
ccacatgtct	cagctatatt	attatTTTatt	ttttatgcat	aaagtgaatc	atttcttctg	660
tattaatttc	caaagggttt	taccctctat	ttaaatgctt	tgaaaaacag	tgcattgaca	720
atgggttgat	atTTTTcttt	aaaagaaaaa	tataattatg	aaagccaaga	taatctgaag	780
cctgttttat	tttaaaactt	tttatgttct	gtggttgatg	ttgtttgttt	gtttgtttct	840
atTTTgttgg	ttttttactt	tgtTTTTtgt	tttgttttgt	tttggtttdg	catactacat	900
gcagtttctt	taaccaatgt	ctgTTTggct	aatgtaatta	aagttgttaa	tttatatgag	960
tgcatttcaa	ctatgtcaat	ggTTTcttaa	tatttattgt	gtagaagtac	tggtaatttt	1020
tttattttaca	atatgtttta	agagataaca	gtttgatatg	ttttcatgtg	tttatagcag	1080
aagttatttta	tttctatggc	attccagcgg	atattttggt	gtttgcgagg	catgcagtca	1140
atattttgta	cagtttagtg	acagtattca	gcaacgcctg	atagcttctt	tggccttatg	1200
ttaaataaaa	agacctgttt	gggatgtaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	1260
aaaaa						1265

<210> 170
 <211> 383
 <212> DNA
 <213> Homo sapien

<400> 170

tgtaagtcga	gcagtgtgat	gacgatatto	ttcttattaa	tgtggtaatt	gaacaaatga	60
tctgtgatac	tgatcctgag	ctaggaggcg	ctgttcagtt	aatgggactt	cttcgtactc	120
taattgatcc	agagaacatg	ctggctacaa	ctaataaaac	cgaaaaaagt	gaattttctaa	180
atTTTTtcta	caaccattgt	atgcatgttc	tcacagcacc	acttttgacc	aatacttcag	240
aagacaaatg	tgaaaaggat	aatatagttg	gatcaaacaa	aaacaacaca	atTTTgtccg	300
ataattatca	aacagcacag	ctacttgcc	taatttttaga	gttactcaca	ttttgtgtgg	360
aacatcacac	tgtctgactt	aca				383

<210> 171
 <211> 383
 <212> DNA
 <213> Homo sapien

<400> 171

tgggcacctt	caatatcgca	agttaaaaaat	aatgttgagt	ttattatact	tttgacctgt	60
ttagctcaac	agggtgaagg	catgtaaaga	atgtggactt	ctgaggaatt	ttctttttaaa	120

aagaacataa	tgaagtaaca	ttttaattac	tcaaggacta	cttttggttg	aagtttataa	180
tctagatacc	tctacttttt	gtttttgctg	ttcgacagtt	cacaaagacc	ttcagcaatt	240
tacagggtaa	aatcggttga	gtagtgagg	tgaaactgaa	attttaaatt	attctgtaaa	300
tactataggg	aaagaggctg	agcttagaat	cttttggttg	ttcatgtgtt	ctgtgctctt	360
atcatcacac	tgctcgactt	aca				383

<210> 172

<211> 699

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(699)

<223> n = A,T,C or G

<400> 172

tcgggtgatg	cctcctcagg	cttgctgtta	gtgtacacag	agctgctcat	gaagcgacag	60
cggctgcccc	tggcacttca	gaacctcttc	ctctacactt	ttggtgcgct	tctgaatcta	120
ggtctgcatg	ctggcgggcg	ctctggccca	ggcctcctgg	aaagtttctc	aggatgggca	180
gcaactcggtg	tgctgagcca	ggcaactaaat	ggactgctca	tgtctgctgt	catggagcat	240
ggcagcagca	tcacacgcct	ctttgtgttg	tcctgctcgc	tggtggtcaa	cgccgtgctc	300
tcagcagtc	tgctacggct	gcagctcaea	gccgccttct	tcctggccac	attgctcatt	360
ggcctggcca	tgcgccgtga	ctatggcagc	cgctagtccc	tgacaacttc	caccctgatt	420
ccggaccctg	tagattgggc	gccaccacca	gatccccctc	ccaggccttc	ctccctctcc	480
catcagcggc	cctgtaacaa	gtgccttgtg	agaaaagctg	gagaagtga	ggcagccagg	540
ttattctctg	gaggttggtg	gatgaagggg	tacccttagg	agatgtgaag	tgtgggttg	600
gttaaggaaa	tgcttaccat	ccccaccccc	caaccaagtt	nttcagact	aaagaattaa	660
ggtaacatca	atacctaggc	ctgaggaggc	atcacccga			699

<210> 173

<211> 701

<212> DNA

<213> Homo sapien

<400> 173

tcgggtgatg	cctcctcagg	ccagatcaaa	cttgggggttg	aaaactgtgc	aaagaaatca	60
atgtcggaga	aagaattttg	caaaagaaaa	atgcctaata	agtactaatt	taataggatca	120
cattagcagt	ggaagaagaa	atgttgatat	tttatgtcag	ctattttata	atcaccagag	180
tgcttagctt	catgtaagcc	atctcgtatt	cattagaaat	aagaacaatt	ttattcgtcg	240
gaaagaactt	ttcaatttat	agcatcttaa	ttgctcagga	ttttaaattt	tgataaagaa	300
agctccactt	ttggcaggag	tagggggcag	ggagagagga	ggctccatcc	acaaggacag	360
agacaccagg	gccagtaggg	tagctgggtg	ctggatcagt	cacaacggac	tgacttatgc	420
catgagaaga	aacaacctcc	aaatctcagt	tgcttaatac	aacacaagct	catttcttgc	480
tcacgttaca	tgctctatgt	agatcaacag	caggtgactc	agggacccag	gctccatctc	540
catatgagct	tccatagtca	ccaggacacg	ggctctgaaa	gtgtcctcca	tgaggggaca	600
catgctctct	cctttcattg	ggcagagcaa	gtcacttatg	gccagaagtc	acactgcagg	660
gcagtgccat	cctgctgtat	gcctgaggag	gcatacccg	a		701

<210> 174

<211> 700

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(700)
 <223> n = A,T,C or G

<400> 174

tcgggtgatg	cctcctcang	cccctaaatc	agagtccagg	gtcagagcca	caggagacag	60
ggaaagacat	agattttaac	cggccccctt	caggagattc	tgaggctcag	ttcactttgt	120
tgcagtttga	acagaggcag	caaggctagt	ggttaggggc	acggctctta	aagctgcact	180
gcctggatct	gcctcccagc	tctgccagga	accagctgcg	tggccttgag	ctgctgacac	240
gcagaaagcc	ccctgtggac	ccagtctcct	cgtctgtaag	atgaggacag	gactctagga	300
accctttccc	ttggtttggc	ctcactttca	caggctccca	tcttgaactc	tatctactct	360
tttctgaaa	ccttgtaaaa	gaaaaaagtg	ctagcctggg	caacatggca	aaaccctgtc	420
tctacaaaa	atacaaaaat	tagttgggtg	tggtagcatg	tgcctgtagt	cccagccact	480
tgggaggtgc	tgaggtggga	ggatcaactg	agccccggag	gtggaggttg	cagtgaagca	540
agatcatgcc	actgcactcc	agcctgagta	atagagtaag	actctgtctc	aaaaacaaca	600
acaacaacag	tgagtgtgcc	tctgtttccg	ggttggtatg	ggcaccacat	ttatgcatct	660
ctcagatttg	gacgctgcag	cctgaggagg	catcaccgca			700

<210> 175
 <211> 484
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(484)
 <223> n = A,T,C or G

<400> 175

tatagggcga	attggggccc	agttgcatgn	tcccggccgc	catggccgcg	ggattcgggt	60
gatgcctcct	caggcttgct	tgccacaagc	tacttctctg	agctcagaaa	gtgccccttg	120
atgagggaaa	atgtcctact	gcactgcgaa	tttctcagtt	ccattttacc	tcccagtcct	180
ccttctaacc	cagttaataa	attcattcca	caagtattta	ctgattacct	gcttggtgcca	240
gggactattc	tcaggctgaa	gaaggtggga	ggggagggcg	gaacctgagg	agccacctga	300
gccagcttta	tatttcaacc	atggctggcc	catctgagag	catctcccca	ctctcgccaa	360
cctatcgggg	catagcccag	ggatgcccc	aggcgcccca	ggttagatgc	gtccctttgg	420
cttgctcagt	atgacatata	ccttagctgc	ttagctgggt	ctggcctgag	gaggcatcac	480
ccga						484

<210> 176
 <211> 432
 <212> DNA
 <213> Homo sapien

<400> 176

tcgggtgatg	cctcctcagg	gctcaaggga	tgagaagtga	cttctttctg	gagggaccgt	60
tcatgccacc	caggatgaaa	atggataggg	acccacttgg	aggacttgct	gatatgtttg	120
gacaaatgcc	aggtagcgga	attggtactg	gtccaggagt	tatccaggat	agattttcac	180
ccaccatggg	acgtcatcgt	tcaaatcaac	tcttcaatgg	ccatggggga	cacatcatgc	240
ctcccacaca	atcgcagttt	ggagagatgg	gaggcaagtt	tatgaaaagc	caggggctaa	300
gccagctcta	ccataaccag	agtcagggac	tcttatocca	gctgcaagga	cagtcgaagg	360
atatgccacc	tcggttttct	aagaaaggac	agcttaatgc	agatgagatt	agcctgagga	420
ggcatcacc	ga					432

<210> 177
 <211> 788
 <212> DNA
 <213> Homo sapien

<400> 177

tagcatgttg	agcccagaca	cagtagcatt	tgtgccaatt	tctggttgga	atggtgacaa	60
catgctggag	ccaagtgcata	acatgccttg	gttcaaggga	tggaaagtca	cccgtaagga	120
tggcaatgcc	agtggaaacca	cgtgcttgga	ggctctggac	tgcatcctac	caccaactcg	180
cccaactgac	aagcccttgc	gcctgcctct	ccaggatgtc	tacaaaattg	gtggtattgg	240
tactgttcct	gttggccgag	tggagactgg	tgttctcaaa	cccgttatgg	tggtcacctt	300
tgctccagtc	aacgtttacaa	cgggaagtaaa	atctgtcgaa	atgcaccatg	aagctttgag	360
tgaagctctt	cctggggaca	atgtgggctt	caatgtcaag	aatgtgtctg	tcaaggatgt	420
tcgtcgtggc	aacgttgctg	gtgacagcaa	aaatgaccca	ccaatggaag	cagctggctt	480
cactgctcag	gtgattatcc	tgaaccatcc	aggccaaata	agtgccggct	atgcccctgt	540
attggattgc	cacacggctc	acattgcatg	caagtttgct	gagctgaagg	aaaagattga	600
tcgccgttct	ggtaaaaagc	tgggaagatgg	ccctaaattc	ttgaagtctg	gtgatgctgc	660
cattgttgat	atggttcctg	gcaagcccat	gtgtgttgag	agcttctcag	actatccacc	720
tttgggtcgc	tttgctgttc	gtgatatgag	acagacagtt	gcggtgggtg	tctgggctca	780
acatgcta						788

<210> 178
 <211> 786
 <212> DNA
 <213> Homo sapien

<400> 178

tagcatgttg	agcccagaca	cctgtgtttc	tgggagctct	ggcagtggcg	gattcatagg	60
cacttgggct	gcactttgaa	tgacacactt	ggctttatta	gattcactag	tttttaaaaa	120
attgttgttc	gtttcttttc	attaaagggt	taatcagaca	gatcagacag	cataattttg	180
tatttaatga	cagaaacggt	ggtacatttc	ttcatgaatg	agcttgcatg	ctgaagcaag	240
agcctacaaa	aggcacttgt	tataaatgaa	agttctggct	ctagaggcca	gtactctgga	300
gtttcagagc	agccagtgat	tgttccagtc	agtgatgcct	agttatatag	aggaggagta	360
cactgtgcac	tcttctaggt	gtaagggtat	gcaactttgg	atcttaaaat	tctgtacaca	420
tacacacttt	atatatatgt	atgtatgtat	gaaaacatga	aattagtttg	tcaaatatgt	480
gtgtgtttag	tatttttagct	tagtgcaact	atttccacat	tatttattaa	attgatctaa	540
gacactttct	tgttgacacc	ttgaatatta	atgttcaagg	gtgcaatgtg	tattccttta	600
gattgtttaa	gcttaattac	tatgatttgt	agtaaatata	cttttaaaat	gtatttgagc	660
ccttctgtag	tgtcgtaggg	ctcttacagg	gtgggaaaga	ttttaatttt	ccagttgcta	720
attgaacagt	atggcctcat	tatatatttt	gatttatagg	agtttgtgtc	tgggctcaac	780
atgcta						786

<210> 179
 <211> 796
 <212> DNA
 <213> Homo sapien

<400> 179

tagcatgttg	agcccagaca	ctgggttaca	gaccagacct	gcttcctcca	tatgtaaaca	60
gcttttaaaa	agccagtga	cctttttaat	actttggcaa	ccttctttca	caggcaaaga	120
acacccccat	ccgccccttg	tttgagagtgc	agagtttggc	tttggttctt	tgccttgctt	180
ggagtatact	tctaattcct	gttgtcctgc	acaagctgaa	taccgagcta	cccaccgcca	240
cccaggccag	gtttccactc	atttattact	ttatgtttct	gttccattgc	tgggtccacag	300

```

aaataagttt tcctttggag gaatgtgatt ataccctttt aatttcctcc ttttgctttt 360
ttttaatatc attggtatgt gtttggccca gaggaactg aaattcacca tcatcttgac 420
tggcaatccc attaccatgc tttttttaa aaacgtaatt tttcttgcc taccattggca 480
gagtagccct tcctggctac tggcttaatg tagtcactca gtttctaggt ggcattaggc 540
atgagacctg aagcacagac tgtcttaacca caaaagggtga caagatctca aaccttagcc 600
aaagggctat gtcaggtttc aatgctatct gcttctgttc ctgctcactg ttctggattt 660
tgtccttctt catccctagc accagaattt cccagtcctc ctccctacct tcccttggtt 720
taattctaatt ctatcagcaa aataactttt caaatgtttt aaccggtatc tccatgtgtc 780
tgggctcaac atgcta 796

```

```

<210> 180
<211> 488
<212> DNA
<213> Homo sapien

```

```

<400> 180
ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt 60
aaaacgacgg ccagtgaatt gtaatacgac tcaactatagg gcgaattggg cccgacgtcg 120
catgctcccg gccgccatgg ccgcgggata gcatgttgag cccagacacc tgcaggatcat 180
ttggagagat tttcacgtt accagcttga tggctctttt caggaggaga gacactgagc 240
actcccaagg tgaggttgaa gatttcctct agatagccgg ataagaagac taggagggat 300
gcctagaaaa tgattagcat gcaaatttct acctgccatt tcagaactgt gtgtcagccc 360
acattcagct gcttcttggt aactgaaaag agagagggtat tgagactttt ctgatggccg 420
ctctaacatt gtaacacagt aatctgtgtg tgtgtgggtg tgtgtgtgtg tctgggctca 480
acatgcta 488

```

```

<210> 181
<211> 317
<212> DNA
<213> Homo sapien

```

```

<400> 181
tagcatgttg agcccagaca cggcgacggg acctgatgag tgggggtgatg gcacctgtga 60
aaaggaggaa cgtcatcccc catgatattg gggaccaga tgatgaacca tggctccgcg 120
tcaatgcata tttaatccat gatactgctg attggaagga cctgaacctg aagtttgtgc 180
tgcaggttta tcgggactat tacctcacgg gtgatcaaaa cttcctgaag gacatgtggc 240
ctgtgtgtct agtaagggtat gcacatgcag tggccagtgt gccaggggta tggttggtgt 300
ctgggctcaa catgcta 317

```

```

<210> 182
<211> 507
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(507)
<223> n = A,T,C or G

```

```

<400> 182
tagcatgttg agcccagaca ctggctgtta gccaaatcct ctctcagctg ctccctgtgg 60
tttggtgact caggattaca gaggcacact gtttcaggga acaaaaagat tttagctgcc 120
agcagagagc accacatata ttagaatggg aaggactgcc acctccttca agaacaggag 180
tgaggggtgg ggtgaatggg aatggaagcc tgcattccct gatgcatttg tgctctctca 240

```

aatcctgtct	tagtcttagg	aaaggaagta	aagtttcaag	gacggttccg	aactgctttt	300
tgtgtctggg	ctcaacatgc	tatcccgcg	ccatggcggc	cgggagcatg	cgacgtcggg	360
cccaattcgc	cctatagtga	gtcgtattac	aattcactgg	ccgtcgtttt	acaacgtcgt	420
gactgggaaa	accctggcgt	tacccaactt	aatcgcttg	cagcacatcc	ccctttccca	480
gctggcgtaa	tancgaaaag	gccccga				507

<210> 183

<211> 227

<212> DNA

<213> Homo sapien

<400> 183

gatttacgct	gcaacactgt	ggaggtagcc	ctggagcaag	gcaggcatgg	atgcttctgc	60
aatcccaaaa	tggagcctgg	tatttcagcc	aggaatctga	gcagagcccc	ctctaattgt	120
agcaatgata	agttattctc	tttgttcttc	aaccttccaa	tagccttgag	cttccagggg	180
agtgtcgtaa	atcattacag	cctggtctcc	acagtgttgc	agcgtaa		227

<210> 184

<211> 225

<212> DNA

<213> Homo sapien

<400> 184

ttacgctgca	acactgtgga	gcagattaac	atcagacttt	tctatcaaca	tgactgggggt	60
tactaaaaag	acaacaaatc	aatggcttca	aaagtctaag	gaataatttc	gatacttcaa	120
ctttataaaa	cctgacaaaa	ctatcaatca	agcataaaga	cagatgaaga	acatttccag	180
attttggcca	atcagatatt	ttacctccac	agtgttgcag	cgtaa		225

<210> 185

<211> 597

<212> DNA

<213> Homo sapien

<400> 185

ggccccgacgt	cgcattgctcc	cggccgccat	ggccgcggga	ttcgttaggg	tctctatcca	60
ctgggaccca	taggctagtc	agagtattta	gagttgagtt	cctttctgct	tcccagaatt	120
tgaagaaaaa	ggagttaggt	gatagagctg	agagatcaga	tttgccctctg	aagcctgttc	180
aagatgtatg	tgctcagacc	ccaccactgg	ggcctgtggg	tgaggctcctg	ggcatctatt	240
tgaatgaatt	gctgaagggg	agcactatgc	caaggaaggg	gaacccatcc	tggcactggc	300
acaggggtca	ccttatccag	tgctcagtcg	ttctttgctg	ctacctggtt	ttctctcata	360
tgtgaggggc	aggtaagaag	aagtgcccr	tgttgtgcga	gtttttagaac	atctaccagt	420
aagtggggaa	gtttcacaaa	gcagcagctt	tgttttgtgt	attttcacct	tcagttagaa	480
gaggaaggct	gtgagatgaa	tgttagttga	gtggaaaaga	cgggtaagct	tagtggatag	540
agaccctaac	gaatcactag	tgccgcccgc	ttgcaggctg	accatatggg	agagctc	597

<210> 186

<211> 597

<212> DNA

<213> Homo sapien

<400> 186

ggccccgaagt	tgcatgttcc	cggccgccat	ggccgcggga	ttcgttaggg	tctctatcca	60
ctacctaaaa	aatcccaaac	atataactga	actcctcaca	cccaattgga	ccaatccatc	120
accccagagg	cctacagatc	ctcctttgat	acataagaaa	atttcccaaa	actacctaac	180

tatatcattt	tgcaagattt	gttttaccaa	atthttgatgg	cctttctgag	cttgctcagtg	240
tgaaccacta	ttacgaacga	tccgatatta	actgcccctc	accgtccagg	tgtagctggc	300
aacatcaagt	gcagtaaata	ttcattaagt	tttcacctac	taaggtgctt	aaacacccta	360
gggtgccatg	tcggtagcag	atcttttgat	ttgtttttat	ttcccataag	ggtcctgttc	420
aaggtcaatc	atacatgtag	tgtgagcagc	tagtcactat	cgcatgactt	ggaggggtgat	480
aatagaggcc	tcctttgctg	ttaaagaact	cttgtcccag	cctgtcaaag	tggatagaga	540
ccctaacgaa	tcactagtgc	ggccgcctgc	aggtcgacca	tatgggagag	ctcccaa	597

<210> 187
 <211> 324
 <212> DNA
 <213> Homo sapien

tcgttagggg	ctctatccac	ttgcaggtaa	aatccaatcc	tgtgtatatc	ttatagtctt	60
ccatatgtag	tggttcaaga	gactgcagtt	ccagaaagac	tagccgagcc	catccatgtc	120
ttccacttaa	ccctgctttg	ggttacacat	cttaactttt	ctgttcaagt	ttctctgtgt	180
agtttatagc	atgagtattg	ggawaatgcc	ctgaaacctg	acatgagatc	tgggaaacac	240
aaacttactc	aataagaatt	tctcccatat	ttttatgatg	gaaaaatttc	acatgcacag	300
aggagtggat	agagacccta	acga				324

<210> 188
 <211> 178
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(178)
 <223> n = A,T,C or G

gcgcggggat	tcgggggtgat	acctcctcat	gccaaaatac	aacgtntaat	ttcacaactt	60
gccttccaat	ttacgcattt	tcaatttgct	ctccccattt	gttgagtcac	aacaaacacc	120
attgcccgaga	aacatgtatt	acctaacatg	cacatactct	taaaactact	catccctt	178

<210> 189
 <211> 367
 <212> DNA
 <213> Homo sapien

tgacaccttg	tccagcatct	gacacagtct	tggctcttgg	aaaatatttg	ataaatgaaa	60
atgaatttct	ttagcaagtg	gtataagctg	agaatatacg	tatcacatat	cctcattcta	120
agacacattc	agtgtccctg	aaattagaat	aggacttaca	ataagtgtgt	tcactttctc	180
aatagctgtt	attcaattga	tggtaggcct	taaaagtcaa	agaaatgaga	gggcatgtga	240
aaaaaagctc	aacatcactg	atcattagaa	aacttccatt	caaaccacca	atgagatacc	300
atctcatacc	agtcagaatg	gctattatta	aaaagtcaaa	aaataacaga	tgctggacaa	360
ggtgtca						367

<210> 190
 <211> 369
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(369)
 <223> n = A,T,C or G

<400> 190
 gacaccttgt ccagcatctg acaacgctaa cagcctgagg agatctttat ttatttattt 60
 agtttttact ctggctaggc agatgggtggc taaaacattc atttaccat ttattcattt 120
 aattgttctt gcaaggccta tggatagagt attgtccagc actgctctgg aagctaggag 180
 catggggatg aacaagatag gctacatcct gttcccacag aacttccact ttagtctggg 240
 aaacagatga tatatacaaa tatataaatg aattcaggta gttttaagta cgaaaagaat 300
 aagaaagcag agtcatgatt tanaatgotg gaaacagggg ctattgcttg agatattgaa 360
 ggtgccccaa 369

<210> 191
 <211> 369
 <212> DNA
 <213> Homo sapien

<400> 191
 tgacaccttg tccagcatct gcacagggaa aagaaactat tatcagagtg aacaggcaac 60
 ctacagaatg ggagaaaatt tttgcaatct atccatctga caaagggcta atatccagaa 120
 tctacaaaga acttatacaa atttacaaga aacaaacaaa caaacaactc ctcaaaaagt 180
 ggggtgaagga tgtgaacaga cacttctcaa aagaagacat ttatggggcc aacaaacata 240
 tgaaaaaaag ctcacatcat ctggctcacta gataaatgca aatcaaaaacc acaatgagat 300
 accatctcat tccagtttag atggcaatca ttaaaaagtc aggaaacaac agatgctgga 360
 caaggtgtc 369

<210> 192
 <211> 449
 <212> DNA
 <213> Homo sapien

<400> 192
 tgacgcttgg ccacttgaca cttcatcttt gcacagaaaa acttctttac agatttaatt 60
 caagactggt ctagtgcagc tcctccagac attttttcat ttgttcata tacgtggaat 120
 tttaaaatca tgtttcatca gtttgaaatg atttgggctg ctaatcaaca caattggatc 180
 gactgttcta ctaaacaaca ggaaaatgtg tatctggcag cctgtggaga aacactaaac 240
 attgattttt ctttgccctt tacggacttt gttccagcta catgtaatac caagttctct 300
 ttaagaggag aagatgttga tcttcatttg tttctaccag actgccaccc tagtaaatat 360
 tctttattta tgctggtaaa aaattgccat ccaaataaga tgattcatga tactggtatt 420
 cctgctgagt gtcaagtggc caagcgtca 449

<210> 193
 <211> 372
 <212> DNA
 <213> Homo sapien

<400> 193
 tgacgcttgg ccacttgaca ccagggatgt akcagttgaa tataatcctg caattgtaca 60
 tattggcaat ttcccatcaa acattctaga aagagacaac caggattgct aggccataaa 120
 agctgcaata aataactggg aattgcagta atcatttcag gccaatcaaa tccagtttgg 180
 ctcagagggt cctttggctg agagaagagg tgagatatata tgtgttttct tgcaacttct 240

```

tggaagaata actccacaat agtctgagga ctagatacaa acctatttgc cattaagca 300
ccagagtctg ttaattccag tactgataag tggtggagat tagactccag tgtgtcaagt 360
ggccaagcgt ca 372

```

```

<210> 194
<211> 309
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(309)
<223> n = A,T,C or G

```

```

<400> 194
tgacgcttgg ccacttgaca cttatgtaga atccatcgtg ggctgatgca agccctttat 60
ttaggcttag tggtgtgggc accttcaata tcacactaga gacaaacgcc acaagatctg 120
cagaaacatt cagttctgan cactcgaatg gcaggataac tttttgtgtt gtaatccttc 180
acatatataa aaacaaactc tgcantctca cgttacaaaa aaacgtactg ctgtaaaata 240
ttaagaaggg gtaaaggata ccactctataa caaagtaact tacaactagt gtcaagtggc 300
caagcgtca 309

```

```

<210> 195
<211> 312
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(312)
<223> n = A,T,C or G

```

```

<400> 195
tgacgcttgg ccacttgaca cccaatctcg cacttcatcc tcccagcacc tgatgaagta 60
ggactgcaac tatccccact tcccagatga ggggaccaan gtacacatta ggaccgggat 120
gggagcacag atttgtccga tcccagactc caagcactca gcgtcactcc aggacagcgg 180
ctttcagata aggtcacaaa catgaatggc tccgacaacc ggagtcagtc cgtgctgagt 240
taaggcaatg gtgacacgga tgcacgtgtn acctgtaatg gttcatcgta agtgtcaagt 300
ggccaagcgt ca 312

```

```

<210> 196
<211> 288
<212> DNA
<213> Homo sapien

```

```

<400> 196
tgtatcgacg tagtgggtctc ctcagccatg cagaactgtg actcaattaa acctctttcc 60
tttatgaatt acccaatctc gggtagtgtc tttatagtag tgtgagaatg gactaatata 120
agtacatttt acttagtaat aataataaac aaatatatta catttttgtg tatttactac 180
accatatttt ttattgttat tgtagtgtac accttctact tattaaaaga aataggcccg 240
aggcgggcag atcacgaggt caggagatgg agaccactac gtcgatac 288

```

```

<210> 197
<211> 289

```

<212> DNA

<213> Homo sapien

<400> 197

ttgggcacct	tcaatatcat	gacaggtgat	gtgataacca	agaaggctac	taagtgatta	60
atgggtgggt	aatgtataca	gagtaggtac	actggacaga	gggtaattc	atagccaagg	120
caggagaagc	agaatggcaa	aacatttcat	cacactactc	aggatagcat	gcagttttaa	180
acctataagt	agttttat	tggaattttc	cacttaatat	tttcagactg	caggtaacta	240
aactgtggaa	cacaagaaca	tagataaggg	gagaccacta	cgtcgatac		289

<210> 198

<211> 288

<212> DNA

<213> Homo sapien

<400> 198

gtatcgacgt	agtggctctc	caagcagtgg	gaagaaaacg	tgaaccaatt	aaaatgtatc	60
agatacccca	aagaaaggcg	cttgagtaaa	gattccaagt	gggtcacaat	ctcagatctt	120
aaaattcagg	ctgtcaaaga	gatttgctat	gaggttgctc	tcaatgactt	caggcacagt	180
cggcaggaga	ttgaagccct	ggccattgtc	aagatgaagg	agctttgtgc	catgtatggc	240
aagaaagacc	ccaatgagcg	ggactcctgg	agaccactac	gtcgcatac		288

<210> 199

<211> 1027

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1027)

<223> n = A,T,C or G

<400> 199

gcttttttggg	aaaaaacncaa	ntggggggaaa	gggggnttnn	tngcaagggg	ataaaggggg	60
aancccgagg	tttccccatt	cagggaggtg	taaaaagncg	gccaggggat	tgtaanagga	120
ttcaataata	gggggaatgg	gcccngaagt	tgcaagggtc	cngcccgcga	tgncgcggg	180
atttagtgac	attacgacgs	tggtataaaa	gtgggsccaa	waaatatttg	tgatgtgatt	240
tttsgaccag	tgaaccattt	gwacaggacc	tcattttccty	tgagatgrta	gccataatca	300
gataaaagrt	tagaagtytt	tctgcacgtt	aacagcatca	ttaaattggag	tggtatcacc	360
aatttcaccc	tttgttagcc	gataccttcc	cottgaaggc	attcaattaa	gtgaccaatc	420
gtcatacgag	aggggatggc	atggggattg	atgatgatat	caggggtgat	accttcacag	480
gtgaaaggca	tatcctcttg	tctatactga	ataccacaag	tacccttttg	accatgtcga	540
ctagcaaatt	tgtctccaat	ctgtgtwac	cctaacagag	cgtaccctta	ttttacaaaa	600
tttatatcct	tcctgattga	gagttaccat	aacctgatcc	acaatgcccg	tctcgctwgt	660
tctgagaaaa	gtgctacagt	ctctcttggt	atagcgtcta	ttggtgctct	ccaattcatc	720
ttcatttttc	aggcaaggtg	aactgttttg	cctataataa	cmtcatctcc	tgatacmcga	780
aacccckgga	rctatcaaac	catcatcatc	cagcgttckt	watgtymcta	aatccctatt	840
gcgccgcgct	gcaggtcaac	atatnggaaa	acccccacc	ccttnggagc	ntaccttgaa	900
ttttccatat	gtcccntaaa	ttancctngc	ttancctggc	cntaacctnt	tccggtttta	960
attgtttccg	cccccnttcc	ccnccttnna	accggaaacc	ttaatttttna	accnggggtt	1020
cctatcc						1027

<210> 200

<211> 207

<212> DNA

<213> Homo sapien

<400> 200

agtgcatta	cgacgctggc	catcttgaat	cctagggcat	gaagttgcc	caaagttcag	60
cacttggtta	agcctgatcc	ctctggttta	tcacaaagaa	taggatggga	taaagaaagt	120
ggacacttaa	ataagctata	aattatatgg	tccttgtcta	gcaggagaca	actgcacagg	180
tatactacca	gcgtcgtaat	gtcacta				207

<210> 201

<211> 209

<212> DNA

<213> Homo sapien

<400> 201

tgggcacctt	caatatctat	taaaagcaca	aatactgaag	aacacaccaa	gactatcaat	60
gaggttacat	ctggagtcct	cgatatatca	ggaaaaaatg	aagtgaacat	tcacagagtt	120
ttacttcttt	gggaactcaa	atgctagaaa	agaaaagggg	gccctctttc	tctggcttcc	180
tggtcctatc	cagcgtcgta	atgtcacta				209

<210> 202

<211> 349

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(349)

<223> n = A,T,C or G

<400> 202

ntacgttgca	acactgtgga	gccactgggt	tttattcccg	gcaggttatc	cagcaaacag	60
tactgaaca	caccgaagac	cgtggtatgg	taaccgttca	cagtaatcgt	tccagtcgtc	120
tgcgggaccc	cgacgagcgt	cactgggtac	agaccagatt	cagccggaag	agaaagcgcc	180
gcaggagag	actcgaactc	cactccgctg	gtgagcagcc	ccatgttttc	aactcgaagt	240
tcaaacggca	ttgggttata	taccatcagc	tgaacttcac	acacatctcc	ttgaaccac	300
tggaatcta	ttttcttggt	ccgctcttct	ccacagtgtt	gcagcgtaa		349

<210> 203

<211> 241

<212> DNA

<213> Homo sapien

<400> 203

tgctcctctt	gccttaccaa	cccaaagccc	actgtgaaat	atgaagtga	tgacaaaatt	60
cagttttcaa	cgcaatatag	tatagtttat	ctgattcttt	tgatctccag	gacactttta	120
acaactgcta	ccaccaccac	caacctaggg	atttaggatt	ctccacagac	cagaaattat	180
ttctcctttg	agtttcaggc	tcctctggga	ctcctgttca	tcaatgggtg	gtaaattggct	240
a						241

<210> 204

<211> 248

<212> DNA

<213> Homo sapien

<400> 204

tagccattta	ccacccatct	gcaaaccswg	acmwwcargr	cywgwackya	ggcgatttga	60
agtactggta	atgctctgat	catgttagtt	acataagtgt	ggtcagttta	caaaaattca	120
cagaactaaa	tactcaatgc	tatgtgttca	tgtctgtgtt	tatgtgtgtg	taatgtttca	180
attaagtitt	tttaaaaaaa	agagatgatt	tccaaataag	aaagccgtgt	tggttaaggca	240
agaggagc						248

<210> 205

<211> 505

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(505)

<223> n = A,T,C or G

<400> 205

tacgctgcaa	cactgtggag	ccattcatac	aggcccttaa	ttaaggaaca	agtgattatg	60
ctacctttgc	acggttaggg	taccgcggcc	gttaaacaatg	tgctactggg	caggcggtgc	120
ctctaatact	ggatgatgcta	gaggtgatgt	ttttggtaaa	caggcggggt	aagatttgcc	180
gagttccttt	tacttttttt	aacctttcct	tatgagcatg	cctgtgttgg	gttgacagtg	240
ggggtataaa	tgacttggtg	gttgattgta	gatattgggc	tgtaattgt	cagttcagtg	300
ttttaatctg	acgcaggctt	atgcggagga	gaatgttttc	atgttactta	tactaacatt	360
agttcttcta	tagggtgata	gattgggtcca	attgggtgtg	aggagttcag	ttatatgttt	420
gggatttttt	aggtagtggg	tggtganctt	gaacgccttc	ttaattgggtg	gctgctttta	480
rgcctactat	gggtggtaaa	tggt				505

<210> 206

<211> 179

<212> DNA

<213> Homo sapien

<400> 206

tagactgact	catgtcccct	accaaagccc	atgtaaggag	ctgagttcct	aaagactgaa	60
gacagactat	tctctggaga	aaaataaaat	ggaaattgta	ctttaaaaaa	aaaaaaaatc	120
ggcggggcat	ggtagcacac	acctgtaatc	ccagctacta	ggggacatga	gtcagtcta	179

<210> 207

<211> 176

<212> DNA

<213> Homo sapien

<400> 207

agactgactc	atgtccccta	ccccaccttc	tgtgtgtgtg	ccgtgttcct	aacaggtcac	60
agactggtac	tggtcagtgg	cctgggggtt	ggggacctct	attatatggg	atacaaat	120
aggagttgga	attgacacga	tttagtgact	gatgggatat	gggtggtaaa	tggtcta	176

<210> 208

<211> 196

<212> DNA

<213> Homo sapien

<400> 208
agactgactc atgtccccta ttttaacaggg tctctagtagc tgtgaaaaaa aaaaatgctg 60
aacattgcat ataatattata ttgttaagaaa tactgtacaa tgacttttatt gcatctgggt 120
agctgtaagg catgaaggat gccagaaggt ttaaggaata tgggtggtaa atggctaggg 180
gacatgagtc agtcta 196

<210> 209
<211> 345
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(345)
<223> n = A,T,C or G

<400> 209
gacgcttggc cacttgacac cttttatattt ttaaggattc ttaagtcatt tangtnactt 60
tgtaagtttt tctctgtgcc ccataagaat gatagcttta aaaattatgc tggggtagca 120
aagaagatac ttctagcttt agaatgtgta ggtatagcca ggattcttgt gagggaggggt 180
gatttagagc aaatttctta ttctccttgc ctcatctgta acatggggat aataatagaa 240
ctggcttgac aaggttggaa ttagtattac atggtaaata catgtaaaat gtttagaatg 300
gtgccaaagta tctaggaagt acttgggcat ggggtggtaa tggct 345

<210> 210
<211> 178
<212> DNA
<213> Homo sapien

<400> 210
gacgcttggc cacttgacac tagagtaggg tttggccaac tttttctata aaggaccaga 60
gagtaaatat tttaggcttt gtgggttggt cagtctctct tgcaactact cagctctgcc 120
attgtagcat agaaatcagc catagacagg acagaaatga atgggtggta aatggcta 178

<210> 211
<211> 454
<212> DNA
<213> Homo sapien

<400> 211
tgggcacctt caatatctat ccagcgcac taaattcgct tttttcttga ttaaaaaattt 60
caccacttgc tgtttttgct catgtatacc aagtagcagt ggtgtgaggc catgcttggt 120
ttttgattcg atatcagcac cgtataagag cagtgccttg gccattaatt tatcttcatt 180
gtagacagca tagttagag tggtatctcc atactcatct ggaatatttg gatcagtgcc 240
atgttccagc aacattaacg cacattcatc ttcttggcat tgtacggcct ttgtcagagc 300
tgtctctttt ttgttgtcaa ggacattaag ttgacatcgt ctgtccagca cgagttttac 360
tacttctgaa ttccatttgg cagaggccag atgtagagca gtctctttt gcttgtccct 420
cttgttcaca tcagtgtccc tgagcataac ggaa 454

<210> 212
<211> 337
<212> DNA
<213> Homo sapien

<400> 212

tccggttatgc	cacccagaaa	acctactgga	gttacttatt	aacatcaagg	ctggaacct	60
tttgccctcag	tcctatctga	ttcatgagca	catgggttatt	actgatcgca	ttgaaaacat	120
tgatcacctg	ggtttcttta	tttatcgact	gtgtcatgac	aaggaaaactt	acaaactgca	180
acgcagagaa	actattaaag	gtattcagaa	acgtgaagcc	agcaattgtt	tcgcaattcg	240
gcattttgaa	aacaaatttg	ccgtggaaaac	tttaatttgt	tcttgaacag	tcaagaaaaa	300
cattattgag	gaaaattaat	atcacagcat	aacggaa			337

<210> 213

<211> 715

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(715)

<223> n = A,T,C or G

<400> 213

tcgggtgatg	cctcctcagg	catcttccat	ccatctcttc	aagattagct	gtcccaaagt	60
tttttccttc	tcttctttac	tgataaattt	ggactccttc	ttgacactga	tgacagcttt	120
agtatccttc	ttgtcacctt	gcagacttta	aacataaaaa	tactcattgg	ttttaaaagg	180
aaaaaagtat	acattagcac	tattaagctt	ggccttgaaa	cattttctat	cttttattaa	240
atgtcgggta	gctgaacaga	attcatttta	caatgcagag	tgagaaaaga	agggagctat	300
atgcatttga	gaatgcaagc	attgtcaaat	aaacatttta	aatgctttct	taaagtgagc	360
acatacagaa	atacattaa	atattagaaa	gtgtttttgc	ttgtgtacta	ctaattaggg	420
aagcaccttg	tatagttcct	cttctaaaaat	tgaagtagat	tttaaaaacc	catgtaattt	480
aattgagctc	tcagttcaga	ttttaggaga	attttaacag	ggatttggtt	ttgtctaaat	540
tttgtcaatt	tntttagtta	atctgtataa	ttttataaat	gtcaaactgt	atttagtccg	600
ttttcatgct	gctatgaaag	aaatacccan	gacagggtta	tttataaang	gaaagangtt	660
aatttgactc	ccagttcaca	ggcctgagga	ngnatcnccc	gaaatcctta	ttgcg	715

<210> 214

<211> 345

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(345)

<223> n = A,T,C or G

<400> 214

ggtaangngc	atacntcggg	gctccggccg	ccggagtcgg	gggattcggg	tgatgcctcc	60
tcaggcccac	ttgggcctgc	ttttcccaaa	tggcagctcc	tctggacatg	ccattccttc	120
tcccacctgc	ctgattcttc	atatgttggg	tgtccctggt	tttctggtgc	tatttcttga	180
ctgctgttca	gctgccactg	tcctgcaaag	cctgcctttt	taaatgcctc	accattcctt	240
catttgtttc	ttaaataatg	gaagtgaag	tgccacctga	ggccgggcac	agtggctcac	300
gcctgtaatc	ccagcacttt	gggagcctga	ggaggcatca	cccga		345

<210> 215

<211> 429

<212> DNA

<213> Homo sapien

```

<400> 215
ggtgatgcct cctcaggcga agctcagggg ggacagaaac ctcccgtgga gcagaagggc 60
aaaagctcgc ttgatcttga ttttcagtac gaatacagac cgtgaaagcg gggcctcacg 120
atccttctga ccttttgggt ttttaagcagg aggtgtcaga aaagttacca cagggataac 180
tggcttgtgg cggccaagcg ttcatagcga cgtcgctttt tgatccttcg atgtcggtc 240
ttcctatcat tgtgaagcag aattcaccaa gcgttggatt gttcacccac taataggga 300
cgtgagctgg gtttagaccg tcgtgagaca ggtagtttt accctactga tgatgtgtkg 360
ttgccatgg aatcctgctc agtacgagag gaaccgcagg ttcasacatt tgggtgatgt 420
gcttgccctt                                     429

```

```

<210> 216
<211> 593
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(593)
<223> n = A,T,C or G

```

```

<400> 216
tgacacctat gtcnngcatc tgttcacagt ttccacaaat agccagcctt tggccacctc 60
tctgtcctga ggtatacaag tatatcagga ggtgtatacc ttctcttctc ttccccacca 120
aagagaacat gcaggctctg gaagctgtct taggagcctt tgggctcaga atttcagagt 180
cttgggtacc ttggatgtgg tctggaagga gaaacattgg ctctggataa ggagtacagc 240
cggaggaggg tcacagagcc ctcagctcaa gcccctgtgc cttagtctaa aagcagcttt 300
ggatgaggaa gcagggttaag taacatacgt aagcgtacac aggtagaaaag tgctgggagt 360
cagaattgca cagtgtgtag gagtagtacc tcaatcaatg agggcaaadc aactgaaaga 420
agaagaccna ttaatgaatt gcttangggg aaggatcaag gctatcatgg agatctttct 480
aggaagatta ttgtttanaa ttatgaaagg antagggcag ggacagggcc agaagtanaa 540
ganaacattg cctatanccc ttgtcttgca cccagatgct ggacaagggtg tca 593

```

```

<210> 217
<211> 335
<212> DNA
<213> Homo sapien

```

```

<400> 217
tgacaccttg tccagcatct gacgtgaaga tgagcagctc agaggaggtg tcttggattt 60
cctggttctg tgggctccgt ggcaatgaat tcttctgtga agtggtatgaa gactacatcc 120
aggacaaatt taatcttact ggactcaatg agcaggtccc tcactatcga caagctctag 180
acatgatctt ggacctggag cctgatgaag aactggaaga caaccccaac cagagtgacc 240
tgattgagca ggcagccgag atgctttatg gattgatcca cgcccgtac atccttacca 300
accgtggcat cgcccagatg ctggacaagg tgtca 335

```

```

<210> 218
<211> 248
<212> DNA
<213> Homo sapien

```

```

<400> 218
tacgtactgg tcttgaaggt cttaggtaga gaaaaaatgt gaatatattaa tcaaagacta 60
tgtatgaaat gggactgtaa gtacagaggg aagggtggcc cttatcgcca gaagttggtg 120

```



```

gatgcgtccc cgtcatgaaa tgttgtgtca ctgcccgcaca tttgccgaat tactgaaatt 180
ccgtagaatt agtgcaaatt ctaacgttgt tcatctaaga ttatgggtcc atgtttctag 240
tactttta 248

```

```

<210> 219
<211> 530
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(530)
<223> n = A,T,C or G

```

```

<400> 219
tgacgcttgg ccacttgaca caagtagggg ataaggacaa agacccatna ggtggcctgt 60
cagccttttg ttactgttgc ttccctgtca ccacggcccc ctctgtaggg gtgtgctgtg 120
ctctgtggac attgggtgcat ttccacacat accattctct ttctgcttca cagcagtcct 180
gaggcgggag cacacaggac taccttgtca gatgangata atgatgtctg gccaaactcac 240
cccccaacct tctcactagt tatangaaga gccangccta naaccttcta tcctgncccc 300
ttgccctatg acctcatccc tgttccatgc cctattctga tttctgggtga actttggagc 360
agcctggttt ntccctcctca ctccagcctc tctccatacc atggtanggg ggtgctgttc 420
cacncaaang gtcagggtgtg tctggggaat cctnananct gccnggagtt tccnangcat 480
tcttaaaaac cttcttgccct aatcanatng tgtccagtgg ccaacctcn 530

```

```

<210> 220
<211> 531
<212> DNA
<213> Homo sapien

```

```

<400> 220
tgacgcttgg ccacttgaca ctaaatagca ttttctaaag gcctgattca gagttgtgga 60
aaattctccc agtgtcaggg attgtcagga acagggctgc tcctgtgctc actttacctg 120
ctgtgtttct gctggaaaag gagggaagag gaatggctga tttttacctc atgtctccca 180
gtttttcata ttcttcttgg atcctcttct ctgacaactg ttcccttttg gtcttcttct 240
tcttgctcag agagcaggtc tctttaaaac tgagaaggga gaatgagcaa atgattaaag 300
aaaacacact tctgaggccc agagatcaaa tattaggtaa atactaaacc gcttgctgc 360
tgtggtcact tttctcctct ttcacatgct ctatccctct atccccacc tattcatatg 420
gcttttatct gccaaagttat ccggcctctc atcaaccttc tcccctagcc tactggggga 480
tatccatctg ggtctgtctc tgggtgtattg gtgtcaagtg gccaaagctc a 531

```

```

<210> 221
<211> 530
<212> DNA
<213> Homo sapien

```

```

<400> 221
attgacgctt ggccacttga caccgcctg cctgcaatac tggggcaagg gccttcaactg 60
ctttcctgcc accagctgcc actgcacaca gagatcagaa atgctaccaa ccaagactgt 120
tggtcctcag cctctctgag gagaaagagc agaagcctgg aagtcagaag agaagctaga 180
tcggctacgg ccttggcagc cagcttcccc acctgtggca ataaagtcgt gcatggctta 240
acaatggggg cacctcctga gaaacacatt gttaggcaat tcggcgtgtg ttcacagag 300
catatttaca caaacctcga tagtgacgcc tactatccac tattgctcct acgctgcaaa 360
cctgaacagc atgggactgt actgaatact ggaagcagct ggtgatggta cttatttgtg 420

```

```
tatctaaaca cagagaaggt acagtaagaa tatgggtatca taaacttaca gggaccgcca 480
tcctatatgc agtctgttgt gaccaaaatg tgtcaagtgg ccaagcgtca 530
```

```
<210> 222
<211> 578
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(578)
<223> n = A,T,C or G
```

```
<400> 222
tgtatcgacg tagtgggtctc cgggctacta ggcggttggtg tgctggtagt acctggttca 60
ctgaaaggcg catctccctc cccgcgtcgc cctgaagcag ggggaggact tcgcccagcc 120
aaggcagttg tatgagtttt agctgcggca cttcgagacc tctgagccca cctccttcag 180
gagccttccc cgattaagga agccagggtg aggattcctt cctccccag acaccacgaa 240
caaaccacca cccccctat tctggcagcc catatacatc agaacgaaac aaaaataaca 300
aataaacnaa aaccaaaaaa aaaagagaag gggaaatgta tatgtctgtc catcctgttg 360
cttttagcctg tcagctccta nagggcaggg accgtgtcct ccgaatggtc tgtgcagcgc 420
cgactgcggg aagtatcgga ggaggaagca gagtcagcag aagttgaacg gtgggcccgg 480
cggctcttgg gggctgggtg tgtacttcga gaccgcttcc gctttttgtc ttagatttac 540
gtttgctctt tggagtggga naccactacn tcnatata 578
```

```
<210> 223
<211> 578
<212> DNA
<213> Homo sapien
```

```
<400> 223
tgtatcgacg tagtgggtctc ctcttgcaaa ggactggctg gtgaatgggt tccctgaatt 60
atggacttac cctaaacata tcttatcatc attaccagtt gcaaaatatt agaattgtgt 120
gtcactgttt catttgattc ctagaagggt agtccttagat atgttacttt aacctgtatg 180
ctgtagtgct ttgaatgcat tttttgtttg catttttgtt tgcccaacct gtcaattata 240
gctgcttagg tctggactgt cctggataaa gctgttaaaa tattcaccag tccagccatc 300
ttacaagcta attaatgcaa ctaaagtctt ccttggtttg ccagacttgt tatgtcaatc 360
ctcaatttct gggttcattt tgggtgccct aaatcttagg gtgtgacttt cttagcatcc 420
tgtaacatcc attcccaagc aagcacaact tcacataata ctttccagaa gttcattgct 480
gaagccttcc cttcaccagc cggagcaact tgattttcta caacttccct catcagagcc 540
acaagagtat gggatatgga gaccactacg tcgataca 578
```

```
<210> 224
<211> 345
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(345)
<223> n = A,T,C or G
```

```
<400> 224
tgtatcgacg tantgggtctc ccaaggtgct gggattgcag gcatgagcca ccaactcccag 60
```

```
<210> 225
<211> 347
<212> DNA
<213> Homo sapien
```

```
<210> 226
<211> 281
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(281)
<223> n = A,T,C or G
```

```
<210> 227
<211> 3646
<212> DNA
<213> Homo sapien
```

<400> 227						
gggaaacact	tctcccagc	cttgtaagg	ttggagccct	ctccagtata	tgtctgcagaa	60
tttttctctc	ggtttctcag	aggattatgg	agtccgcctt	aaaaaaggca	agctctggac	120
actctgcaaa	gtagaatggc	caaagtttgg	agttgagtgg	ccccttgaag	ggctactgaa	180
cctcacaatt	gttcaagctg	tgtggcgggt	tgttactgaa	actcccggcc	tccctgatca	240
gtttccctac	attgatcaat	ggctgagttt	ggtcaggagc	accccttccg	tggtccact	300
catgcaccat	tcataatttt	acctccaagg	tctctctgag	ccagaccgtg	ttttcgccctc	360
gaccctcagc	cggttcggct	cgccctgtac	tgccctctctc	tgaagaagag	gagagtctcc	420
ctcaccagg	cccacgcct	taaaaccagc	ctactccctt	agggtcatcc	catgtctcct	480
cggctatgtc	cctctgtagc	tcatcaccca	ttgcctcttg	gttgcaaccg	tgggtggagg	540
aagtagcccc	tctactacca	ctgagagagg	cacaagtcct	tctgggtgat	gagtgtcca	600
cccccttct	ggtttatgtc	cctttcttct	acttctgact	tgtataattg	gaaaaccocat	660
aatcctccct	tctctgaaaa	gccccaggct	ttgacctcac	tgatggagtc	tgtactctgg	720

acacattggc	ccacctggga	tgactgtcaa	cagctccttt	tgaccctttt	cacctctgaa	780
gagagggaaa	gtatccaaa	agaggccaaa	aagtacaacc	tcacatcaac	caataggccg	840
gaggaggaag	ctagaggaat	agtgattaga	gacccaattg	ggacctaatt	gggacccaaa	900
tttctcaagt	ggagggagaa	cttttgacga	tttccaccgg	tatctcctcg	tgggtattca	960
gggagctgct	cagaaaccta	taaacttgtc	taaggcgact	gaagtcgtcc	aggggcatga	1020
tgagtcacca	ggagtgtttt	tagagcacct	ccaggaggct	tatcagattt	acaccctttt	1080
tgacctggca	gccccgaaa	atagccatgc	tcttaatttg	gcatttggtg	ctcaggcagc	1140
cccagatagt	aaaaggaac	tccaaaaact	agagggtatt	tgctggaatg	aataccagtc	1200
agcttttaga	gatagcctaa	aaggtttttg	acagtcaaga	ggttgaaaaa	caaaaacaag	1260
cagctcaggc	agctgaaaaa	agccactgat	aaagcatcct	ggagtatcag	agtttactgt	1320
tagatcagcc	tcatttgact	tcccctccca	catggtgttt	aaatccagct	acactacttc	1380
ctgaactcaa	ctccactatt	cctgttcatg	actgtcagga	actgttgga	actactgaaa	1440
ctggccgacc	tgatcttcaa	aatgtgcccc	taggaaagg	ggatgccacc	atgttcacag	1500
acagtagcag	cttcctcgag	aagggactac	gaaaggccgg	tcagctgtt	accatggaga	1560
cagatgtgtt	gtgggctcag	gctttaccag	caaacacctc	agcacaaga	gctgaattga	1620
tcgcoctcac	tcaggctctc	cgatggggtg	aggatattaa	cgtaaacact	gacagcaggt	1680
acgcctttgc	tactgtgcat	gtacgtggag	ccatctacca	ggagcgtggg	ctactcacct	1740
cagcaggtgg	ctgtaatcca	ctgtaaagga	catcaaaagg	aaaacacggc	tggtgcccgt	1800
ggtaaccaga	aagctgattc	agcagctcaa	gatgcagtgt	gactttcagt	cacgcctcta	1860
aaacttgctgc	ccacagtctc	ctttccacag	ccagatctgc	ctgacaatcc	cgcatactca	1920
acagaagaag	aaaactggcc	tcagaactca	gagccaataa	aaatcaggaa	ggttggtgga	1980
ttcttcctga	ctctagaatc	ttcatacccc	gaactcttgg	gaaaacttta	atcagtcacc	2040
tacagtctac	caccctttta	ggaggagcaa	agctacctca	gctcctccgg	agccgtttta	2100
agatccccc	tcttcaaagc	ctaacagatc	aagcagctct	ccggtgcaca	acctgcgccc	2160
aggtaaatgc	caaaaaaggt	cctaaaccca	gcccaggcca	ccgtctccaa	gaaaactcac	2220
caggagaaaa	gtgggaaatt	gactttacag	aagtaaaacc	acaccgggct	gggtacaaat	2280
accttctagt	actggtagac	accttctctg	gatggactga	agcatttgct	accaaaaacg	2340
aaactgtcaa	tatggtagtt	aagttttttac	tcaatgaaat	catccctcga	catgggctgc	2400
ctgtttgcca	tagggtctga	taatggaccg	gccttcgcct	tgtctatagt	ttagtcatgc	2460
agtaaggcgt	taaacattca	atggaagctc	catttgtgct	atcgaccca	gagctctggg	2520
caagtagaac	gcatgaactg	caccctaaaa	aacactctta	caaaattaat	cttagaaacc	2580
ggtgtaaatt	gtgtaagtct	ccttccttta	gccctactta	gagtaagggt	caccctctac	2640
tgggctgggt	tcttaccttt	tgaaatcatg	tatgggaggg	tgctgcctat	cttgccctaa	2700
ctaagagatg	cccaattggc	aaaaatatca	caaactaatt	tattacagta	cctacagtct	2760
ccccaacagg	tacaagatat	catcctgcca	cttgttogag	gaacccatcc	caatccaatt	2820
cctgaacaga	cagggccctg	ccattcattc	cgcgcagggt	acctgttggt	tgtaaaaaag	2880
ttccagagag	aaggactccc	tcctgcttgg	aagagacctc	acaccgtcat	cacgatgcca	2940
acggctctga	aggtggatgg	cattcctgcg	tggattcact	actcccgcct	caaaaaggcc	3000
aacagagccc	aactagaaac	atgggtcccc	agggctgggt	caggccccct	aaaactgcac	3060
ctaagttggg	tgaagccatt	agattaattc	tttttcttaa	ttttgtaaaa	caatgcatag	3120
cttctgtcaa	acttatgtat	cttaagactc	aatataaccc	ccttggtata	actgaggaat	3180
caatgatttg	attcccccaa	aaacacaagt	ggggaatgta	gtgtccaacc	tggtttttac	3240
taaccctggt	tttagactct	ccctttcctt	taatcaactc	gcttggttcc	acctgaattg	3300
actctccctt	agctaagagc	gccagatgga	ctccatcttg	gctctttcac	tggcagccgc	3360
ttcctcaagg	acttaacttg	tgcaagctga	ctcccagcac	atccaagaat	gcaatttaact	3420
gataagatac	tgtggcaagc	tatatccgca	gttcccagga	attcgtccaa	ttgatcacag	3480
cccctctacc	cttcagcaac	caccaccctg	atcagtcagc	agccatcagc	accgaggcaa	3540
ggccctccac	cagcaaaaag	attctgactc	actgaagact	tggatgatca	ttagtatttt	3600
tagcagtaaa	gttttttttt	ctttttcttt	ctttttttct	cgtgcc		3646

<210> 228

<211> 419

<212> DNA

<213> Homo sapien

<400> 228

<210> 229

<211> 148

<212> DNA

<213> Homo sapien

<400> 229

aagagggtac	ctgtatgtag	ccatggtggc	aatgagagac	tgattactac	ctgctggaga	60
ttgtttaagt	gagttaatat	attaaggata	aaggagacca	ggttttttga	ctgttggaga	120
aggaattac	agatattgaa	ggtcccaa				148

<210> 230

<211> 257

<212> DNA

<213> Homo sapien

<400> 230

taagaggggta	cmaaaaaaaaa	aaaatagaac	gaatgagtaa	gacctactat	ttgatagtac	60
aacaggggtga	ctatagtcaa	tgataactta	attatacatt	taacatagag	tgtaattgga	120
ttgtttgttaa	ctcgaaggat	aaatgcttga	gaggatggat	acccattct	ccatgatgta	180
cttattttcac	attacatgcc	tgtatcaaag	catctcatat	accctataaa	tatgtacacc	240
tactatgtac	cctctta					257

<210> 231

<211> 260

<212> DNA

<213> Homo sapien

<400> 231

taagagggta	cgggtatttg	ctgatgggat	ttttttttct	ttctttttct	ttggaaaaca	60
aaatgaaagc	cagaacaaaa	ttattgaaca	aaagacaggg	actaaatctg	gagaaatgaa	120
gtccctcac	ctgactgcc	tttcattcta	tctgaccttc	cagtctagg	taggagaata	180
gggggtggag	gggattaatc	tgatacaggt	atattttaag	caactctgca	tgtgtgccag	240
aagtcatacq	tacctcttta					260

<210> 232

<211> 596

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(596)
 <223> n = A,T,C or G

<400> 232
 tgctcctctt gccttaccaa ccacaaatta gaaccataat gagatgtcac ctcatacctg 60
 gtgggattaa cattatttaa aaaatcagaa gtattgacaa ggatgtgaag aaattagaac 120
 atctgtgcac tgttggtggg aatgtaaaaa aggtgtggcc actatgggta acagcatgaa 180
 ggttcctcaa aaaaaatttt ttttaattcta ctctatgac gatcttgagg ttgtttatgc 240
 aaaagaactg aaatcaggat tttgaggaaa tattcacatt cccacatcca tttctgcttt 300
 attcataata ctcaagagat ggaaacaacc taaatgtcca tcccgggatg aatggataaa 360
 cacagtgtgg tatatgcata caatggaata ttatttagtc tttaaaaaga aaaattctat 420
 catatactac aacttanatn aaccttgagg acacaatgct nagtgaaata agccacggaa 480
 ggacgaatac tgcattattc ccttatatga agtatctaaa gtggtcaaac tcttanagca 540
 naaagtaaaa atgggtgggt gccanacagt tggttaggcn agaaganaan cctant 596

<210> 233
 <211> 96
 <212> DNA
 <213> Homo sapien

<400> 233
 tcttctgaag acctttcgcg actcttaagc tcgtgggttg taaggcaaga ggagcgttgg 60
 taaggcaaga ggagcgttgg taaggcaaga ggagca 96

<210> 234
 <211> 313
 <212> DNA
 <213> Homo sapien

<400> 234
 tgtaagtcga gcagtgtgat gataaaactt gaatggatca atagttgctt cttatggatg 60
 agcaaagaaa gtagtttctt gtgatggaat ctgctcctgg caaaaatgct gtgaacgttg 120
 ttgaaaagac aacaaagagt ttagagtagt acataaattt agaatagtag ataaacttag 180
 aatagtagat aaacttagta cataaataat gcacgaagca ggggcagggc ttgagagaat 240
 tgacttcaat ttggaaagag tatctactgt aggttagatg ctctcaaaca gcatcacact 300
 gctcgactta caa 313

<210> 235
 <211> 550
 <212> DNA
 <213> Homo sapien

<400> 235
 aacgaggaca gatccttaaa aagaatgttg agtgaaaaaa gtagaaaata agataatctc 60
 caaagtccag tagcattatt taaacatttt taaaaaatac actgataaaa attttgtaca 120
 tttcccaaaa atacatatgg aagcacagca gcatgaatgc ctatgggrtt gaggataggg 180
 gttgggagta gggatgggga taaaggggga aaataaaacc agagaggagt cttacacatt 240
 tcatgaacca aggagtataa ttatttcaac tatttgtacc wgaagtccag aaagagtgga 300
 ggcagaaggg ggagaagagg gcgaagaaac gtttttggga gaggggtccc asaagagaga 360
 ttttcgcgat gtggcgctac atacgttttt ccaggatgcc ttaagctctg caccctatct 420
 ttctcatcac taatattaga ttaaacoctt tgaagacagc gtctgtggtt tctctacttc 480
 agctttccct ccgtgtcttg cacacagtag ctgttttaca agggttgaac tgactgaagt 540

gagattatttc

550

<210> 236
 <211> 325
 <212> DNA
 <213> Homo sapien

<400> 236
 tagactgact catgtcccct accagagtag ctagaattaa tagcacaagc ctctacaccc 60
 aggaactcac tattgaatac ataaatggaa tttattcagc cttaaaaagt ttggaaggaa 120
 attctgacat atgctaaaaac atggatgaac cttgaagact ttatgataag taaaagaagc 180
 cagtcataaa aggaaaaata ttgcatgatt ccacttatat gaggtacctt gagtagtcaa 240
 tttcatagaa acacaaaata gaatggtggt tgccagggct tttgaggaaa aggggaatgac 300
 aagttagggg acatgagtca gtcta 325

<210> 237
 <211> 373
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(373)
 <223> n = A,T,C or G

<400> 237
 tagactgact- catgtcccct atctactcaa catttcact tgaagtctga taggcatctc 60
 agacttatct tgtcccaaag caaactotit atttcttttc atcctagtct ttatttcttg 120
 tgetgtctta cccatctcaa aagagtgccaa aaatccacca agttgctgaa acagaaatct 180
 aagaaatctt cttgattctt ctttttccca tctacttcac ttctaattca ttagtaaata 240
 atctgtttca gaaaaccaa cacctcatgt tctactcat aagggggagt tgaacaatga 300
 gaacacacag acacaggag gggaacatca cacaccacgg ccggtcaggg agtangggac 360
 atgagtcagt cta 373

<210> 238
 <211> 492
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(492)
 <223> n = A,T,C or G

<400> 238
 tagactgact catgtcccct ataatgctcc caggcatcag aaagcatctc aaactggagc 60
 tgacaccatg gcagaggttt caggtaagtc acaaaagggg tcctaaagaa tttgccctca 120
 atatcagagt gattagaaga agtgacaga gctacccaag ttaaaccatat gcgagataaa 180
 aaaaatatgg cacttgtgaa cacacactac aggaggaaaa taaggaacat aatagcatat 240
 tgtgtctatta tgatgatgaa gaacctctct anaagaaaac ataaccaaag aaacaaagaa 300
 aattcctgcn aatgtttaat gctatagaag aaattaacaa aaacatatat tcaatgaatt 360
 cagaaaagtt agcaggtcan aagaaaacaa atcaaagacc agaataatcc cattttagat 420
 tgtcgagtaa actanaacag aaagaatacc actggaaatt gaattcctac gtangggaca 480
 tgantcantic ta 492

gagattatttc
 tagactgact catgtcccct accagagtag ctagaattaa tagcacaagc ctctacaccc
 aggaactcac tattgaatac ataaatggaa tttattcagc cttaaaaagt ttggaaggaa
 attctgacat atgctaaaaac atggatgaac cttgaagact ttatgataag taaaagaagc
 cagtcataaa aggaaaaata ttgcatgatt ccacttatat gaggtacctt gagtagtcaa
 tttcatagaa acacaaaata gaatggtggt tgccagggct tttgaggaaa aggggaatgac
 aagttagggg acatgagtca gtcta
 tagactgact- catgtcccct atctactcaa catttcact tgaagtctga taggcatctc
 agacttatct tgtcccaaag caaactotit atttcttttc atcctagtct ttatttcttg
 tgetgtctta cccatctcaa aagagtgccaa aaatccacca agttgctgaa acagaaatct
 aagaaatctt cttgattctt ctttttccca tctacttcac ttctaattca ttagtaaata
 atctgtttca gaaaaccaa cacctcatgt tctactcat aagggggagt tgaacaatga
 gaacacacag acacaggag gggaacatca cacaccacgg ccggtcaggg agtangggac
 atgagtcagt cta
 tagactgact catgtcccct ataatgctcc caggcatcag aaagcatctc aaactggagc
 tgacaccatg gcagaggttt caggtaagtc acaaaagggg tcctaaagaa tttgccctca
 atatcagagt gattagaaga agtgacaga gctacccaag ttaaaccatat gcgagataaa
 aaaaatatgg cacttgtgaa cacacactac aggaggaaaa taaggaacat aatagcatat
 tgtgtctatta tgatgatgaa gaacctctct anaagaaaac ataaccaaag aaacaaagaa
 aattcctgcn aatgtttaat gctatagaag aaattaacaa aaacatatat tcaatgaatt
 cagaaaagtt agcaggtcan aagaaaacaa atcaaagacc agaataatcc cattttagat
 tgtcgagtaa actanaacag aaagaatacc actggaaatt gaattcctac gtangggaca
 tgantcantic ta

<210> 239
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 239
 tggaaagtat ttaatgatgg gcaacttgct gtttacttcc tacatatccc atcatcttct 60
 gtatTTTTTT aaataacttt tttttggatt tttaaagtaa ctttattctg agaggtaaca 120
 tggattacat acttctaagc cattaggaga ctctatgtta aacccaaaagg aaatgttact 180
 agatcttcat ttgatcaata ggatgtgata atcatcatct ttctgctcta atggaaaagt 240
 actanaaaca tggaaccata atcttagatg aacaacgtta gaatttgcac taattctacg 300
 gaatttcagt aattcggcaa atgtcgggca gtgacacaac atttcatgac ggggacgcat 360
 ctaccaactt ctggcgataa gggccaccct tccctctgta cttacagtcc catttcatac 420
 acagtctttg attaaatatt cacatTTTTT ctctacctaa agaccttcaa gaccagtacg 480
 ta 482

<210> 240
 <211> 519
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(519)
 <223> n = A,T,C or G

<400> 240
 tgtatcgacg tagtggtctc cccatgtgat agtctgaaat atagcctcat gggatgagag 60
 gctgtgcccc agcccgacac ccgtaaaggg tctgtgctga ggtggattag taaaagagga 120
 aagccttgca gttgagatag aggaagggca ctgtctcctg cctgcccctg ggaactgaat 180
 gtctcggtat aaaaccgat tgtacatttg ttcaattctg agataggaga aaaaccaccc 240
 tatggcgggga ggcgagacat gttggcagca atgtcgcctt gttatgcttt actccacaga 300
 tgtttgggag gagggaaaca taaatctggc ctacgtgcac atccaggcat agtacctccc 360
 tttgaactta attatgacac agattccttt gctcacatgt ttttttgctg accttctcct 420
 tattatcacc ctgctctcct accgcattcc ttgtgctgag ataataaaaa taatatcaat 480
 aaaaacttga nggaactcgg agaccactac gtcgataca 519

<210> 241
 <211> 771
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(771)
 <223> n = A,T,C or G

<400> 241

tgtatcgacg	tagtgggtctc	cactcccgcc	ttgacggggc	tgctatctgc	cttccaggcc	60
actgtcacgg	ctcccggtta	gaagtcactt	atgagacaca	ccagtgtggc	cttgttggt	120
tgaagctcct	cagaggaggg	tgggaacaga	gtgaccgagg	gggcagcctt	gggctgacct	180
aggacgggtca	gcttgggtccc	tccgccaaac	acgagagtgc	tgctgcttgt	atatgagctg	240
cagtaataat	cagcctcgtc	ctcagcctgg	agcccagaga	tggtcaggga	ggccgtgttg	300
ccanacttgg	agccagagaa	gcgattagaa	acccctgagg	gccgattacc	gacctcataa	360
atcatgaatt	tgggggcttt	gcctgggtgc	tggttggtacc	angagacatt	attataacca	420
ccaacgtcac	tgctggttcc	antgcaggga	aaatggttga	tcnaactgtc	caagaaaacc	480
actacgtcca	taccaatcca	ctaattgccn	gccgcctgca	ggttcaacca	tattggggaa	540
naactcccn	ccgccgtttg	ggattgncat	naacctttga	aattttttcc	tattanttgt	600
ccccctaaaa	taaaccnttg	ggcnttaatc	cattgggtcc	atancttntt	tncccggttt	660
ttaaaanttg	tttatccgcg	cncnctttt	ccccccaac	tttccaaaac	ccgaaaccnt	720
tnaaatttnt	tnaaaccttg	gggggttccc	nnaattnnan	ttnaanctnc	c	771

<210> 242

<211> 167

<212> DNA

<213> Homo sapien

<400> 242

ttgggcacctt	caatatcggg	ctcatcgata	acatcacgct	gctgatgctg	ctgttgctgg	60
tcctctctag	gaacctctgg	attttcaaat	tctttgagga	attcatccaa	attatctgcc	120
tctcctcctt	tctcctttt	tctaaggtct	tctggtacaa	gcggtca		167

<210> 243

<211> 338

<212> DNA

<213> Homo sapien

<400> 243

ttgggcacct	tcaatatcta	ctgatctaaa	tagtgtggtt	tgaggcctct	tgttcctggc	60
taaaaatcct	tggcaagagt	caatctccac	tttacaatag	aggtaaaaat	cttacaatgg	120
atattcttga	caaagctagc	atagagacag	caattttaca	caaggatatt	ttcacctggt	180
taataacagt	ggttttctta	cacccatagg	gtgccaccaa	gggaggagtg	cacagttgca	240
gaaacaaatt	aagatactga	agacaacact	acttaccatt	tcccgatatag	ctaaccacca	300
gttcaactgt	acatgtatgt	tcttatgggc	aatcaaga			338

<210> 244

<211> 346

<212> DNA

<213> Homo sapien

<400> 244

tttttggctc	ccatacagca	cactctcatg	ggaaatgtct	gttctaaggt	caacccataa	60
tgcaaaaatc	atcaatatac	ttgaagatcc	ccgtgtaagg	tacaatgtat	ttaatattat	120
cactgatata	attgatccaa	taccagtttt	agtctggcat	tgaatcaa	cactgttttt	180
gttgataaaa	aagagaaaata	tttagcttat	atttaagtac	catattgtaa	gaaaaaagat	240
gcttatcttt	acatgctaaa	atcatgatct	gtacattggg	gcagtgaata	ttactgtaaa	300
agggagaag	gaatgaagac	gagctaagga	tattgaaggt	gcccaa		346

<210> 245

<211> 521

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(521)
 <223> n = A,T,C or G

<400> 245

accaatccca	cacggatact	gagggacaag	tatatcatcc	catttcatcc	ctacagcagc	60
aacttcatga	ggcaggagtt	attagtccca	ttttacagaa	gaggaaactg	agacttaggg	120
agatcaagta	atttgcccag	gtcgcacaa	tagtgataga	gccagggctt	gaagcgacgt	180
ctgtcttaag	ccaatgacct	ctgcagatta	ttagagcaac	tggtctccac	aacagtgtaa	240
gcctcttgct	anaagctcag	gtccacaagg	gcagagattt	ttgtctgttt	tgctcattgc	300
tccttcccca	ttgcttagag	cagggctctgc	cacgaancag	gttctcaatg	catagttatt	360
aaatgtatat	aagagcaaac	atatgttaca	gagaactttc	tgtatgcttg	tcacttacat	420
gaatcacctg	tganatgggt	atgcttggtc	cccantgttg	cagatnaaga	tattgaangt	480
gcccaaata	ctanttgagg	gcgcctgcan	gtccancata	t		521

<210> 246
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 246

tggaaccaat	ccaaataccc	atcaatgata	gactggataa	agaaaatttg	gcacatgttc	60
accatgaaat	actatgcagc	cataaaaaag	gatgagttca	tatcctttgc	agggacatgg	120
atgaagctgg	agaccatcat	tctcagcaaa	ctaacaaggg	aacagaaaac	caaacactgc	180
atgttctcac	tcttaagtgg	gagctgaaca	atgagaacac	atggacacag	ggaggggaac	240
atcacacagt	ggggcctgct	gggtgggtagg	gggtctagggg	agggatagca	ttagggagaaa	300
tacctaattg	agatgacggg	ttgatgggtg	cagcaaacca	ccatgacacg	tgtataccta	360
tgtaacaaac	ctgcatgttc	tgcacatgta	ccccagaact	taaagtgtta	ataaaaaaat	420
taagaaaaaa	gttaagtatg	tcatagatac	ataaaatatt	gtanatattg	aaggtgcccc	480
aa						482

<210> 247
 <211> 474
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(474)
 <223> n = A,T,C or G

<400> 247

ttcgatacag	gcacagagta	agcagaaaaa	tggctgtggg	ttaaccaagt	gagtacagtt	60
aagtgagaga	ggggcagaga	agacaagggc	atatgcaggg	ggtgattata	acaggtgggt	120
gtgctgggaa	gtgagggtag	tcggggatga	ggaacagtga	aaaagtggca	aaaagtggta	180
agatcagtga	attgtacttc	tccagaatth	gatttctggg	ggagtcaaat	aactatccag	240
tttgggggat	catanggcaa	cagttgaggt	ataggaggta	gaagtcncag	tgggataatt	300

gaggttatga anggtttggg actgactggg actgacaang tctgggttat gaccatggga 360
 atgaatgact gtanaagcgt anaggatgaa actattccac ganaaagggg tccnaaaact 420
 aaaaannnaa gnnnnngggg aatattatatt atgtggatat tgaangtgcc caaa 474

<210> 248
 <211> 355
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(355)
 <223> n = A,T,C or G

<400> 248
 ttcgatacag gcaaacatga actgcaggag ggtggtgacg atcatgatgt tgccgatggg 60
 ccggatggnc acgaagacgc actggancac gtgcttacgt ccttttgctc tgttgatggc 120
 cctgagggga cgcaggaccc ttatgaccct cagaatcttc acaacgggag atggcactgg 180
 attgantccc antgacacca gagacacccc aaccaccagn atatcantat attgatgtag 240
 ttctgtaga nggccccctt gtggaggaaa gctccatnag ttgggtcatct tcaacaggat 300
 ctcaacagtt tccgatggct gtgatgggca tagtcatant taaccntgtn tcgaa 355

<210> 249
 <211> 434
 <212> DNA
 <213> Homo sapien

<400> 249
 ttggattggg cctccaggag aacaagggga aaaaggtgac cgagggtctc ctggaactca 60
 aggatctcca ggagcaaaaag gggatggggg aattcctggg cctgctgggc ccttaggtcc 120
 acctggtcct ccaggcttac caggctctca aggcccaaag ggtaacaaag gctctactgg 180
 acccgctggc cagaaagggtg acagtgggtct tccagggcct cctgggcctc cagggtccacc 240
 tgggtgaagtc attcagcctt taccaatctt gtctctcaaa aaaacgagaa gacatactga 300
 aggcattgcaa gcagatgcag atgataatat tcttgattac tcggatggaa tggaagaaat 360
 atttggttcc ctcaattccc tgaaacaaga catcgagcat atgaaatttc caatgggtac 420
 tcagaccaat ccaa 434

<210> 250
 <211> 430
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(430)
 <223> n = A,T,C or G

<400> 250
 tggattgggc acatggcaga gacaggattc caaggcagtg agaggaggat acaatgcttc 60
 tcaactagtta ttattattta ttttattttt gagatgaagt ctgctttgt ctcccaggct 120
 ggagagcggt ggtgcgatct tggctctctg caacccccgc ctcaagcaat tctcctgtct 180
 tagcctcgcg ggtagatgga attacaggcg cccacogcca tgcccaacta atttttttgt 240
 gtcttcagta gagacagggt ttcgccatgt tgggcaggct ggtcttgaac tctgacctc 300
 nagtgatctg cctcctcctg cctcacaaaag tgctggaatt acaggcatgg gctgctgcac 360

ccagtcact tctcactagt tatggcctta tcattttcac cacattctat tggcccaaaa 420
 aaaaaaaaaa 430

<210> 251
 <211> 329
 <212> DNA
 <213> Homo sapien

<400> 251
 tgggtactcca ccatyatggg gtcaaccgcc atcctcgccc tctcctggc tgttctccaa 60
 ggagtctgtg ccgaggtgca gctgrtgag tctggagcag aggtgaaaaa gtccggggag 120
 tctctgaaga tctcctgtaa gggttctgga tacaccttta agatctactg gatcgcttgg 180
 gtgcgccagt tgcccgaggaa aggcctggag tggatggggc tcatctttcc tgatgactct 240
 gataccagat acagcccgtc cttccaaggc caggtcacca tctcagtcga taagtccatc 300
 agcaccgcct atctgcagtg gagtaccaa 329

<210> 252
 <211> 536
 <212> DNA
 <213> Homo sapien

<400> 252
 tgggtactcca ctcagcccaa ccttaattaa gaattaagag ggaacctatt actattctcc 60
 caggctcctc tgctctaacc aggcttcttg gacagtatta gaaaaggatg tctcaacaag 120
 tatgtagatc ctgtactggc ctaagaagtt aaactgagaa tagcataaat cagaccaaac 180
 ttaatggtcg ttgagacttg tgtcctggag cagctgggat aggaaaactt ttgggcagca 240
 agaggaagaa ctgcctggaa gggggcatca tgttaaaaat tacaagggga acccacacca 300
 ggcccccttc ccagctctca gcttagagta ttagcatttc tcagctagag actcacaact 360
 tccttgctta gaatgtgcca ccggggggag tccctgtggg tgatgaggct ctcaagagtg 420
 agagtggcat cctatcttct gtgtgccac aggagcctgg ccgagactt agcaggtgaa 480
 gtttctggtc caggctttgc ccttgactca ctatgtgacc tctggtggag taccaa 536

<210> 253
 <211> 507
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(507)
 <223> n = A,T,C or G

<400> 253
 ntgttgcatg cccagtaact cggaagctg aggcggggag atcacctgag ctcaggaggt 60
 tgaggccgca gtgagccggg accacgccac tacactccag cctggggcat agagtgagac 120
 cctccaagac agaaaagaaa agaaaggaag ggaaagggaa agggaaaagg aaaaggaaaa 180
 ggaaaaggaa aaggaaaaga caagacaaaa caagacttga atttggatct cctgacttca 240
 attttatgtt ctttctacac cacaattcct ctgcttacta agatgataat ttagaaacct 300
 ctggttccat tctttacagc aagctggaag tttggtcaag taattacaat aatagtaaca 360
 aatttgaata ttatatgcca ggtgtttttc attcctgctc tcacttaatt ctcaccactc 420
 tgatataaat acaattgctg ccgggtgtgg tggctcatgc ctgtaatccc ggcactttgg 480
 gagaccgagg tgggcggats gcaacaa 507

<210> 254

<211> 222
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(222)
 <223> n = A,T,C or G

<400> 254
 ttggattggt cactgtgagg aagccaaatc ggatccgaga gtctttttct aaaggccagt 60
 actggccaca ctttctcctg ccgccttcct caaagctgaa gacacacaga gcaaggcgct 120
 tctgttttac tccccaatgg taactccaaa ccatagatgg ttagctnccc tgctcatctt 180
 tccacatccc tgctattcag tatagtcctg ggaccaatcc aa 222

<210> 255
 <211> 463
 <212> DNA
 <213> Homo sapien

<400> 255
 tggtgcatc cataaatgct gaaatggaaa taaacaacat gatgagggag gattaagttg 60
 gggagggagc acattaaggt ggccatgaag tttgttgaa gaagtgactt ttgaacaagg 120
 ccttggtgtt aagagctgat gagagtgtcc cagacagagg ggccactggt acaatagacg 180
 agatgggaga gggcttgaa ggtgtgcgaa ataggaagga gtttgttctg gtatgagtct 240
 agtgaacaca gaggcgagag gccctggtgg gtgcagctgg agagttatgc agaataacat 300
 taggccctgt gggggactgt agactgtcag caataatcca cagtttggt tttattctaa 360
 gagtgatggg aagccgtgga aaggggggta agcaaggagt gaaattatca gatttacagt 420
 gataaaaata aattggtctg gctactgggg aaaaaaaaaa aaa 463

<210> 256
 <211> 262
 <212> DNA
 <213> Homo sapien

<400> 256
 ttggattggt caacctgctc aactctacyt ttctctcttc ttcttaaaaa attaatgaat 60
 ccaatacatt aatgccaaaa cccttgggtt ttatcaatat ttctgttaaa aagtattatc 120
 cagaactgga cataatacta cataataata cataacaacc ctttcatctg gatgcaaaca 180
 tctattaata tagcttaaga tcaactttcac ttacagaag caacatcctg ttgatgttat 240
 tttgatgttt ggaccaatcc aa 262

<210> 257
 <211> 461
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(461)
 <223> n = A,T,C or G

<400> 257
 gnggnnnnnn nnncaattcg actcngttcc cntggtancc ggctcgacatg gccgcgggat 60

```

taccgcttgt nnctgggggt gtatggggga ctatgaccgc ttgtagctgg ggggtgtatg 120
gggactatga ccgctttag mtggkgtgt atgggggact atgaccgctt gtcgggtggt 180
cggataaacc gacgcaagg acgtgatcga agctgcgttc ccgctctttc gcatcggtag 240
ggatcatgga cagcaatatt cgcattcgyt tgaaggcgtt cgaccatcgc gtgctcgatc 300
aggcgaccgg cgacatcgcc gacaccgcac gccgtaccgg cgcgctcatc cgcggtcgga 360
tcccgtttcc cagcgcgcatc gagaagttca cgggtcaaccg tggcccgcac gtcgacaaga 420
agtcgcgcga gcagttcgag gtgcgtacct acaagcggtc a 461

```

<210> 258

<211> 332

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(332)

<223> n = A,T,C or G

<400> 258

```

tgaccgcttg tagctggggg tgtatggggg actacgaccg cttgtagctg ggggtgtatg 60
ggggactatg accgcttgta gctgggggtg tatgggggac tatgaccgct tgtagctggg 120
ggtgtatggg ggactaggac cgctttagtc tgggggtgta tgggggacta tgaccgcttg 180
tagctggggg tgtatggggg actacgaccg cttgtagctg ggggtgtatg ggggactatg 240
accgcttgta nctgggggtg tatgggggac tatgaccgct tgtgctgcct gggggatggg 300
aggagagttg tggttgggga aaaaaaaaaa aa 332

```

<210> 259

<211> 291

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(291)

<223> n = A,T,C or G

<400> 259

```

taccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt 60
gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt 120
gaccgcttgt gaccgcttgt nacngggggg gtctggggga ctatgannga ntgtnactgg 180
gggtgtctgg gggctatga nngantgtna cnggggggtg ctgggggact atganngact 240
gtgcnnctg ggggatcnga ggagantngn ggntagnat ggttnnggan a 291

```

<210> 260

<211> 238

<212> DNA

<213> Homo sapien

<400> 260

```

taagagggta ctggttaaaa tacaggaaat ctggggtaat gaggcagaga accaggatac 60
tttgagggtca gggatgaaaa ctagaatttt tttctttttt tttgcctgag aaacttgctg 120
ctctgaagag gccatgtat taattgcttt gatcttcctt ttcttacagc cctttcaagg 180
gcagagccct ccttatcctg aaggaatctt atccttagct atagtatgta ccctctta 238

```

<210> 261
 <211> 746
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(746)
 <223> n = A,T,C or G

<400> 261
 ttgggcacct tcaatatcaa tagctaacat ttattgagtg tttatcgtat cataaaacac 60
 tgttctaagc ctttaaacgt actaattcat ttaatgctca taatcacttt agaaggtggg 120
 tactagtatt agtctcattt acagatgcaa catgcaggca cagagagggt aattaacttg 180
 cccaaggtaa cacagctaag aaatagaaaa aatattgaat ctggaaagtt gggcttcttg 240
 gtaaccacaca gagtcttcaa tgagcctggg gcctcactca gtttgctttt acaaagcgaa 300
 tgagtaacat cacttaattc agtgagtagg ccaaattggag gtcagctacg agtttctgct 360
 gttcttgcag tggactgaca gatgtttaca acgtctggcc atcagtwaat ggactgatta 420
 tcattgggaw gtgggtgggc tgaatgttg ccagtgaggt ttattcawgc catattttta 480
 tgtttaggat gacttttggc tggctcctagg gcaagctctg tctgscacgg aacacagaat 540
 wacacaggga cccctcaat ttctggtgtg gctagaacca tgaaccactg gttgggggaa 600
 caagcgggtca aaacctaaagt ggggccggct ggcagggtcc acccatatgg ggaaaactcc 660
 cnacgcgttt ggaatgcctn agctngaatt attctaanag ttgtccnctt aaaattagcc 720
 tgggcgttaa tcanggtcn naagcc 746

<210> 262
 <211> 588
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(588)
 <223> n = A,T,C or G

<400> 262
 tgaccgcttg tcatctcaca tggggctcctg cacgcttttg cctttgtagg aaacctgaca 60
 tttgtctgtt tcttctttct cttttccttc ccatatcctc ctaatttacg tttgacttgt 120
 ttgctgagga ggcaggagct agagactgct gtgagctcat aggggtggga agtttatcct 180
 tcaagtcccg cccactcatc actgcttctc accttcccct gaccaggctt acaagtgggt 240
 tcttgctgc tttccctttg gacccaacaa gccctgttaa tgagtgtgca tgactctgac 300
 agctgtggac tcagggtcct tggctacagc tgccatgtaa aatatctcat ccagttctcg 360
 caaattgtta aaataaccac atttcttaga ttccagtacc caaatcatgt ctttacgaac 420
 tgctcctcac acccagaagt ggcacaataa ttcttgggga attattactt ttttttttct 480
 ctctnttnc gnnngnnnng gnnngnccag gaattaccac nttggaagac ctggccngaa 540
 tttattatan aggggagccg attntttttt ctaacacaaa gcgggtca 588

<210> 263
 <211> 730
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(730)
 <223> n = A,T,C or G

<400> 263

tttttttttt	tttggcctga	gcaactgaaa	ttatgaaatt	tccatatact	caaaagagta	60
agactgcaaa	aagattaaat	gtaaaagtgt	tcttgtatac	agtaatgttt	aagataccta	120
ttanatttat	aaatggaaaa	ttagggcatt	tggatataca	agttgaaaat	tcaggagtga	180
ggttgggctg	gctgggtata	tactgaaaac	tgtcagtaca	cagatgacat	ctaaaaccac	240
aaatctggtt	ttatttttagc	agtgatatgt	gtcactccca	caaaagcctt	cccaattggc	300
ctcagcatac	acaacaagtc	acctccccac	agccctctac	acataaacia	attccttagt	360
ttagttcagg	aggaaatgcg	cccttttctt	tccgctctag	gtgaccgcaa	ggcccagttc	420
tcgtcaccaa	gatgttaagg	gaagtctgcc	aaagaggcat	ctgaaaggaa	ataaggggaa	480
tgggagtgc	cacaaaggaa	agccaaggan	aaactttgga	gaccgtttct	aganccttgg	540
catttcacaa	caaaactcng	gaacaaacct	tgtctcatca	atcatttaag	cccttcgttt	600
ggannagact	ttctgaactg	ggcgctgaac	ataancctca	ttgaatgtct	tcacagtctc	660
ccagctgaag	gcacaccttg	ggccagaagg	ggaatcttcc	aggtcctcaa	nacagggctc	720
gccctttgnc						730

<210> 264
 <211> 715
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(715)
 <223> n = A,T,C or G

<400> 264

tttttttttt	tttggccagt	atgatagtct	ctaccactat	attgaagctc	ttaggtcatt	60
tacacttaat	gtggttatag	atgctgttga	gcttacttct	accaccttgc	tatttctccc	120
gtctcttttt	tgttcctttt	ctcttctttt	cctcccttat	tttataattg	aatttttttag	180
gattctattt	tatatagatt	tatcagctat	aacactttgt	attcttttgt	tttgtgggtc	240
ttctgtcatt	tcaatgtgca	tcttaaactc	atcacaaatc	attttcaaat	aatatcatat	300
aaccttacat	ataatgtaag	aatctaccac	catatatattc	catttctccc	ttccatccca	360
tgtntgtcat	attttttcct	ttatatatgt	tttaaagaca	taatagtata	tgggaggttt	420
ttgcttaaaa	tgtgatcaat	attccttcaa	ngaaacgtaa	aaattcaaaa	taaatntctg	480
tttattctca	aatnnaccta	atatttccca	ccatntctna	tacntttcaa	gaatctgaag	540
gcattgggtt	tttccggctt	aagaacctcc	tctaaagcac	tctaagcaga	attaagtctt	600
ctgggagagg	aattctccca	agcttgggac	ttnanntgta	ctccntnang	gttaaanttt	660
ggccgggaaa	tagaaattcc	aagttaacag	gntanttttt	nttttnttn	tcncc	715

<210> 265
 <211> 152
 <212> DNA
 <213> Homo sapien

<400> 265

tttttttttt	tttcccaaca	caaagcacca	ttatctttcc	tcacaatttt	caacatagtt	60
tgattcccat	gaagagggtta	tgatttctaa	agaaaacatg	gctactatac	tatcaatcag	120
ggttaaattct	tttttttttg	agacggagtt	ta			152

<210> 266
 <211> 193

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(193)
<223> n = A,T,C or G

<400> 266
taaactccgt ccccttctta atcaatatgg aggctaccca ctccacatta ccttcttttc 60
aagggaactgt ttccgtaact gttgtgggta ttcacgacca ggcttctaaa cctcttaaaa 120
ctccccaatt ctgggtgcaa cttggacaac atgctttttt tttttttttt tttttttttt 180
gagacggagt tta 193

<210> 267
<211> 460
<212> DNA
<213> Homo sapien

<400> 267
tggtgcatc ccttaagcat ggggtgctatt aaaaaaatgg tggagaagaa aatacctgga 60
atttacgtct tatcttttaga gattgggaag accctgatgg aggacgtgga gaacagcttc 120
ttcttgaatg tcaattccca agtaacaaca gtgtgtcagg cacttgctaa ggatcctaaa 180
ttgcagcaag gctacaatgc tatgggattc tcccagggag gccaatttct gagggcagtg 240
gctcagagat gcccttcacc tcccatgata aatctgatct cggttggggg acaacatcaa 300
gggtgttttg gactccctcg atgcccagga gagagctctc acatctgtga cttcatccga 360
aaaacactga atgctggggc gtactccaaa gttgttcagg aacgcctcgt gcaagccgaa 420
tactggcatg acccataaaa ggaggatgtg gatcgcaaca 460

<210> 268
<211> 533
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(533)
<223> n = A,T,C or G

<400> 268
tggtgcatc cggtgataga atagcgacgt ggtaatgagt gcatggcacg cctccgactt 60
accttcgccc gtggggaccc cgagtacgtc tacggcgctcgc tcaattagag taccctctgg 120
acgcccgggc gcgttcgatt taccggaagc gcgagctgca gtgggcttgc gccccgggc 180
aaattctttg ggggggttaa ggccgcgggg aatttgaggt atctctatca gtatgtagcc 240
aagttggaac agtcgccatt ccgaaaatcg ctttctttga atccgcaccg cctccagcat 300
tgctctattc atcaacctga aggcacgcat aagtgaagggt tgtgtcttca gcagctccac 360
tccataacta gcgcgctcga cctcgtcttc gtacgcgcca ggtccgtgcg tgcgaattcc 420
caactccggt gagttgcgca tttcaagttt cgaaactgtt cgctccacn atttggcatg 480
ttcacgcatg acacggaata aactcgtcca gtaccgggaa tgggatcgca aca 533

<210> 269
<211> 50
<212> DNA
<213> Homo sapien

<400> 269

tttttttttt ttgcctgaa ttagctacag atcctcctca caagcggta

50

<210> 270

<211> 519

<212> DNA

<213> Homo sapien

<400> 270

tggtgcgatc	caaataaccc	accagcttct	tgacacttc	gcagaagcca	ccgtcctttg	60
gctgagtcac	gtgaacggtc	agtgaagca	gccgcgtgcc	agagcagagg	tgacgatgc	120
tgacaccag	ctcagggtg	acctcctcca	gcaggatgga	caggatggag	ctgccgtacg	180
tgccaccac	ctcctggcac	tcttcgcaca	gggacttcgg	cagcttcgag	cacattttgt	240
caaaagcgtc	gagtatttct	ttctcagtct	tggtgtgtgc	aatcagcttg	gtcacctcct	300
tcaccaggaa	ttcacacacc	tcacagtaaa	catcagactt	tgctgggacc	tcgtgcttct	360
taatgggtc	caccagttcc	agggcaggga	tgacattcct	ggaggccact	ttggcgggga	420
ccagagtctg	catgggcac	tctttcacct	catcacagaa	ccaaccagc	gcacagatct	480
ccttggttg	catgtgcac	atcatctggg	atcgcaaca			519

<210> 271

<211> 457

<212> DNA

<213> Homo sapien

<400> 271

tttttttttt	ttcggggcgc	gaccggacgt	gcactcctcc	agtagcggct	gcacgtcgtg	60
ccaatggccc	gctatgagga	ggtgagcgtg	tccggcttcg	aggagtcca	ccgggccgtg	120
gaacagcaca	atggcaagac	cattttcgcc	tactttacgg	gttctaagga	cgcggggggg	180
aaaagctggt	gccccgactg	cgtgcaggct	gaaccagtcg	tacgagaggg	gctgaagcac	240
attagtgaag	gatgtgtgtt	catctactgc	caagtaggag	aagagcctta	ttggaaagat	300
ccaaataatg	acttcagaaa	aaacttgaaa	gtaacagcag	tgctacact	acttaagtat	360
ggaacacctc	aaaaactggt	agaatctgag	tgtcttcagg	ccaacctggt	ggaaatgttg	420
ttctctgaag	attaagattt	taggatggca	atcaaga			457

<210> 272

<211> 102

<212> DNA

<213> Homo sapien

<400> 272

tttttttttt	ttgggcaaca	acctgaatac	cttttcaagg	ctctggcttg	ggctcaagcc	60
cgcaggggaa	atgcaactgg	ccaggtcaca	gggcaatcaa	ga		102

<210> 273

<211> 455

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(455)

<223> n = A,T,C or G

<400> 273

tttttttttt	ttggcaatca	acaggtttaa	gtcttcggcc	gaagttaatc	tcgtgttttt	60
ggcaatcaac	aggtttaagt	cttcggccga	agttaatctc	gtgttttttg	caatcaacag	120
gtttaagtct	tcggccgaag	ttaatctcgt	gtttttggca	atcaacaggt	ttaagtcttc	180
ggccgaagtt	aatctcgtgt	ttttggcaat	caacagggtt	aagtcttcgg	ccgaagttaa	240
tctcgtgttt	ttggcaatca	acaggtttaa	gtcttcggcc	gaagttaatc	tcgtgttttt	300
ggcaatcaag	aggtttaagt	cttcggccga	agttaatctc	gtgttttttg	caatcaacag	360
gtttaagtct	tcggccgaan	ttaatctcgt	gtttttggca	atcaacaggt	ttaantcttc	420
ggccgaagtt	aatctcgtgt	ttttggcaat	caana			455

<210> 274

<211> 461

<212> DNA

<213> Homo sapien

<400> 274

tttttttttt	ttggccaata	cccttgatga	acatcaatgt	gaaaatcctc	ggtaaaatac	60
tggaacaacca	aatccagcag	cacatcaaaa	agcttatcca	ccatgatcaa	gtgggcttca	120
tccctgggat	gcaaggctgg	ttcaacataa	gaaaatcaat	aaatgtaatc	catcacataa	180
acagaaccaaa	agacaaaaac	cacatgatta	tctcaataga	tgcagaaaag	gccttggaaca	240
aattcaacag	cccttcattgc	ttaacactct	taataaaacta	gatattgatg	gaatgtatct	300
caaaataata	agagctatatt	atgacaaacc	cacagccaat	atcatactga	atgggcaaaag	360
actggaagca	ttcccttttga	aaactggcac	aagacaagga	tgccctctct	caccgctcct	420
attcaacata	gtattggaag	ttctggccag	ggcaatcaag	a		461

<210> 275

<211> 729

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(729)

<223> n = A,T,C or G

<400> 275

tttttttttt	ttggccaaca	ccaagtcttc	cacgtgggag	gttttattat	gttttacaac	60
catgaaaaca	taggaaggtg	gctgttacag	caaacatttc	agatagacga	atcggccaaag	120
ctccccaac	cccaccttca	cagcctcttc	cacacgtctc	ccanagattg	ttgtccttca	180
cttgcaaatt	canggatgtt	ggaagtngac	atttnnagtn	gcnggaaccc	catcagtga	240
ncantaagca	gaantacgat	gactttgana	nacanctgat	gaagaacacn	ctacnganaa	300
ccctttctnt	cgtgttanga	tctcnngtcc	ntcactaatg	cggccccctg	cnggtccacc	360
atttgggaga	actcccccn	cgttgatcc	ccccttgagt	ntccattct	ngtccccan	420
accngncttg	ngngncantn	cnnccctnca	ccntgtttcc	ctgnngtnaa	aatnngtttt	480
nccgcncncc	naattcccac	ccnaatcaca	gcgaanccng	aaggccttcn	naagtgttta	540
angcccnng	gtttcctcnt	ntanttgacg	cctaccctcc	cncctnnnnnt	tncngtgg	600
tcgcgcctg	gncncgcctn	gttccctctt	nnggnnacia	cctngntcnn	nggcncntcn	660
nnctnttcc	tnnnactagc	tngcctntcc	nncnccnggn	ncanngcaca	ttncncnnac	720
tntgtnncc						729

<210> 276

<211> 339

<212> DNA

<213> Homo sapien

<400> 276

tgacctgaca	tgtagtagat	acttaataaa	tatttgtgga	atgaatggat	gaagtggagt	60
tacagagaaa	aatagaaaag	tacaaattgt	tgtcagtgtt	ttgaaggaaa	attatgatct	120
ttcccaaagt	tctgacttca	ttctaagaca	gggttagtat	ctccatacat	aattttactt	180
gcttttgaaa	atcaaagtga	ataatctatt	tagattgata	atatttttag	actggctata	240
aactattaag	tgctagcaaa	tatacatttt	aatctcattt	tccacctctt	gtgatatagc	300
tatgtaggtg	ttgactttaa	tgtagtgcag	gtcaatccc			339

<210> 277

<211> 664

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(664)

<223> n = A,T,C or G

<400> 277

tgacctgaca	tccataacaa	aatctttctc	catttatattc	ttctagggga	atctcttgaa	60
aagcatccaa	aggaaacaaa	tgatggtaag	accgtgccaa	gtggggagca	gacaccaaag	120
taagaccaca	gattttacat	tcaacaggta	gtcacagta	ctttgcccga	caactgtgggc	180
agaaatagcc	tcctaagtga	agccctggct	cagtattgcc	atccaaatgc	gccatgctga	240
aagagggttt	tgcatcctgg	tcagatnaag	aagcaatggt	gtgctgagga	aatcccatc	300
gaataagtga	gcattcagaa	cttgagctag	caggaggagg	actaagatga	tgtgtgagca	360
actctttgta	atggctttca	tctaaaataa	catggtagct	gccaccagtt	tcacgagcaa	420
gtacagtgca	aacgcgaact	tctgcagaca	atccaataac	agatactcta	atcttagctg	480
ccttttaggtt	cttgattaaa	tcataaatat	tagatggatc	gcaagttgta	aggntgctaa	540
aagatgatta	gtacttctcg	acttgtatgt	ccaggcatgt	tgttttaaan	tctgccttag	600
ncctgctta	ggggaatttt	taaagaagat	ggctctccat	gttcanggtc	aatcacnaat	660
tgcc						664

<210> 278

<211> 452

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(452)

<223> n = A,T,C or G

<400> 278

tgacctgaca	ttgaggaaga	gcacacacct	ctgaaattcc	ttaggttcag	aagggcattt	60
gacacagagt	gggcctctga	taattcatga	aatgcattct	gaagtcattc	agaatggagg	120
ctgcaatctg	ctgtgctttg	ggggttgcc	caactgtgctc	ctggatatca	cacaaaagct	180
gcaatccttc	ttcttcaact	aacattttgc	agtatttgct	gggattttta	ctgcagacat	240
gatacatagc	ccatagtgcc	cagagctgaa	cctctggttg	agagaagttg	ccaaggagcg	300
ggaaaaatgt	cttgaaagat	ctataggtca	ccaatgctgt	catcttacia	cttgaacttg	360
gccaatctctg	tatggttgca	tgcatatctt	ggagaagagt	acgcctctgg	aagtcacggg	420
atatccaaan	ctgtctgtca	gatgtcaggt	ca			452

<210> 279

<211> 274
 <212> DNA
 <213> Homo sapien

<400> 279

tttttttttt	ttcggcaagg	caaatttact	tctgcaaaag	ggtgctgctt	gcacttttgg	60
ccactgcgag	agcacaccaa	acaaagtagg	gaaggggttt	ttatccctaa	cgcggttatt	120
ccctggttct	gtgtcgtgtc	cccattggct	ggagtcagac	tgacaaatct	acactgaccc	180
aactggctac	tgtttaaaat	tgaatatgaa	taattaggta	ggaaggggga	ggctgtttgt	240
tacggtacaa	gacgtgtttg	ggcatgtcag	gtca			274

<210> 280
 <211> 272
 <212> DNA
 <213> Homo sapien

<400> 280

tacctgacat	ggagaaataa	cttgtagtat	tttgcgtgca	atggaatact	atatgagggg	60
gaaaatgaat	gaactagcaa	tgcgtgtatc	aacatgaata	aatccccaaa	acataataat	120
gttgaatgga	aaaggtgagt	ttcagaagga	tatatatgcc	ctctaaatcc	atttatgtaa	180
acctttaaaa	aactacatta	tttatgggtca	taagtccatc	cagaaaatat	ttaaaaacct	240
acatgggatt	gataactact	gatgtcaggt	ca			272

<210> 281
 <211> 431
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(431)
 <223> n = A,T,C or G

<400> 281

tttttttttt	ttggccaata	gcatgattta	aacattggaa	aaagtcaa	gagcaatg	60
aattttttat	ttctcttgaa	taatcaaaag	agtaggcaac	attggttcct	cattcttgaa	120
tagcattaat	cagaaaatat	tgcatagcct	ctagcctcct	tagagtaggt	gtgctctctc	180
aaatatatca	tagtcccaca	gtttattttca	tgtatatattt	ctgcctgaat	cacatagaca	240
tttgaatttg	caacgcctga	tgtaaaatata	taaattotta	ccaatcagaa	acatagcaag	300
aaattcaggg	acttgggtcat	yatcagggta	tgacagcana	tcctgtara	aacactgata	360
cacactcaca	cacgtatgca	acgtggagat	gtcgcyttww	kkktwywcm	rmrycrwcn	420
aatcacttan	n					431

<210> 282
 <211> 98
 <212> DNA
 <213> Homo sapien

<400> 282

attcgattcg	atgcttgagc	ccaggagttc	aagactgcag	tgagccactg	cacttcaggc	60
tggacaacag	agcgagtccc	tgtgccaaaa	aaaaaaaa			98

<210> 283
 <211> 764

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 283

tttttttttt	ttcgcaagca	cgtgcacttt	attgaatgac	actgtagaca	ggtgtgtggg	60
tataaactgc	tgtatctagg	ggcaggacca	agggggcagg	ggcaacagcc	ccagcgtgca	120
gggccascac	tgcacagtgg	astgcaaagg	ttgcaggcta	tgggcggcta	ctavtaacco	180
cgtttttcct	gtattatctg	taacataata	tggtagactg	tcacagagcc	gaatwccart	240
hacacgatga	atccaawggg	caygaggatg	cccasaatca	gggcccasat	sttcaggcac	300
ttggcgggtg	gggcatacgc	ctgkgccccg	gtcacgtcsc	caaccwtcty	cctgtcccta	360
cmcttgawtc	cncncctttn	nntnccntna	tntgcccgcg	cncctcctng	ngtcaacng	420
natctgcact	anctccctcn	ccccttntgg	antctcttcc	ttcaantaan	nttatacctn	480
acncccccct	cncctttccc	ctnccncccn	tnatcccnng	nccnctatca	ntcntnccct	540
cncntnctn	cnnatcgttc	cncctnntaa	ctacnctttn	nacnanncct	cactnatncc	600
ngnnantttc	ttccttccct	cccnaocgcn	tgcgtgcgcc	cgtctngcct	nnnctncgna	660
cccnnacttt	atttaccttt	ncaccctagc	nctctacttn	acccanccnc	tcctacctcc	720
nggnccaccc	nnccctnato	nctnnccttn	tennctcntt	cccc		764

<210> 284
<211> 157
<212> DNA
<213> Homo sapien

<400> 284

caagtgtagg	cacagtgatg	aaagcctgga	gcaaacacaa	tctgtgggta	attaacgttt	60
atttctcccc	ttccaggaa	gtcttgcatg	gatgatcaaa	gatcagctcc	tggtaacat	120
aaataagcta	gtttaagata	cgttccccct	cacttga			157

<210> 285
<211> 150
<212> DNA
<213> Homo sapien

<400> 285

attcgattgt	actcagacaa	caatatgcta	agtggaagaa	gtcagtcaca	aaagaccaca	60
tactgtatga	cttcatttac	attaagtgtc	cagaataggc	aatccgtag	agacagaaa	120
tagatgagca	gctgcctagg	tctgagtaca				150

<210> 286
<211> 219
<212> DNA
<213> Homo sapien

<400> 286

attcgatttt	tttttttttg	gccatgatga	aattcttact	ccctcagatt	ttttgtctgg	60
ataaatgcaa	gtctcaccac	cagatgtgaa	attacagtaa	actttgaagg	aatctcctga	120
gcaaccttgg	ttaggatcaa	tccaatatc	accatctggg	aagtcaggat	ggctgagttg	180
caggtcttta	caagttcggg	ctggattggt	ctgagtaca			219

<210> 287
 <211> 196
 <212> DNA
 <213> Homo sapien

<400> 287
 attcgattct tgaggctacc aggagctagg agaagaggca tggaacaaat tttccctcat 60
 atccatactc agaaggaacc aaccctgctg acaccttaat ttcagcttct ggccctctaga 120
 actgtgagag agtacatttc tcttggttta agccaagaga atctgtcttt tgggtacttta 180
 tatcatagcc tcaaga 196

<210> 288
 <211> 199
 <212> DNA
 <213> Homo sapien

<400> 288
 attcgatttc agtccagtc cagaacccac attgtcaatt actactctgt araagattca 60
 tttgttgaaa ttcattgagt aaaacattta tgatccctta atatatgcca attaccatgc 120
 taggtactga agattcaagt gaccgagatg ctagcccttg ggttcaagt atccctctcc 180
 cagagtgcac tggactgaa 199

<210> 289
 <211> 182
 <212> DNA
 <213> Homo sapien

<400> 289
 attcgattct tgaggctaca aacctgtaca gtatgttact ctactgaata ctgtaggcaa 60
 tagtaataca gaagcaagta tctgtatatg taaacattaa aaaggtacag tgaaacttca 120
 gtattataat cttagggacc accattatat atgtggtcca tcattggcca aaaaaaaaaa 180
 aa 182

<210> 290
 <211> 1646
 <212> DNA
 <213> Homo sapien

<400> 290
 ggcacgagga gaaatgtaat tccatatattt atttgaaact tattccatat ttttaattgga 60
 tattgagtga ttgggttatc aaacacccac aaactttaat tttgttaaat ttatatggct 120
 ttgaaataga agtataagtt gctaccattt tttgataaca ttgaaagata gtattttacc 180
 atctttaatc atcttggaat atacaagtcc tgtgaacaac cactctttca cctagcagca 240
 tgaggccaaa agtaaaggct ttaaattata acatatggga ttcttagtag tatgtttttt 300
 tcttgaact cagtggctct atctaaccct actatctcct cactctttct ctaagactaa 360
 actctaggct cttaaaaatc tgcccacacc aatcttagaa gctctgaaaa gaatttgtct 420
 ttaaatatct tttaatagta acatgtattt tatggaccaa attgacattt tcgactattt 480
 tttccaaaaa agtcagggtga atttcagcac actgagttgg gaattttctta tcccagaaga 540
 ccaaccaatt tcatatttat ttaagattga ttccatactc cgttttcaag gagaatccct 600
 gcagtctcct taaaggtaga acaaatactt tctatttttt tttcaccatt gtgggattgg 660
 actttaagag gtgactctaa aaaaacagag aacaaatatg tctcagttgt attaagcacg 720
 gaccatatt atcatattca cttaaaaaaa tgatttcctg tgcacctttt ggcaacttct 780
 cttttcaatg tagggaaaaa cttagtcacc ctgaaaaccc acaaaataaa taaaacttgt 840
 agatgtgggc agaaggtttg ggggtggaca ttgtatgtgt ttaaattaaa ccctgtatca 900

ctgagaagct	gttgtatggg	tcagagaaaa	tgaatgctta	gaagctgttc	acatcttcaa	960
gagcagaagc	aaaccacatg	tctcagctat	attattatgt	atgttttatg	cataaagtga	1020
atcatttctt	ctgtattaat	ttccaaagg	ttttaccctc	tatttaaagt	ctttgaaaaa	1080
cagtgcattg	acaatgggtt	gatatttttc	tttaaaagaa	aaatataatt	atgaaagcca	1140
agataatctg	aagcctgttt	tattttaaaa	ctttttatgt	tctgtgggtg	atgttggttg	1200
tttgtttgtt	tctattttgt	tgggttttta	ctttgttttt	tgttttggtt	tggtttgttt	1260
kgcatactac	atgcagttct	ttaaccaatg	tctgtttggc	taatgtaatt	aaagtgttta	1320
atztatatga	gtgcatttca	actatgtcaa	tgggtttctta	atatttattg	tgtagaagta	1380
ctggtaattt	ttttattttac	aatatgttta	aagagataac	agtttgatat	gttttcatgt	1440
gtttatagca	gaagttattt	atctctatgg	cattccagcg	gatattttgg	tggttgcgag	1500
gcatgcagtc	aatattttgt	acagtttagt	gacagtattc	agcaacgcct	gatagcttct	1560
ttggccttat	gttaaataaaa	aagacctgtt	tgggatgtat	tttttatttt	taaaaaaaaa	1620
aaaaaaaaaa	aaaaaaaaaa	aaaaaa				1646

<210> 291

<211> 1851

<212> DNA

<213> Homo sapien

<400> 291

tcatcaccat	tgccagcagc	ggcaccgtta	gtcaggtttt	ctgggaatcc	cacatgagta	60
cttccgtgtt	cttcattctt	cttcaatagc	cataaatctt	ctagctctgg	ctggctgttt	120
tcacttcctt	taagcctttg	tgactcttcc	tctgatgtca	gctttaagtc	ttgttctgga	180
ttgctgtttt	cagaagagat	ttttaacatc	tgtttttctt	tgtagtcaga	aagtaactgg	240
caaattacat	gatgatgact	agaaacagca	tactctctgg	ccgtctttcc	agatcttgag	300
aagatacatc	aacattttgc	tcaagtagag	ggctgactat	acttgctgat	ccacaacata	360
cagcaagtat	gagagcagtt	cttccatata	tatccagcgc	atttaaattc	gcttttttct	420
tgattaaaaa	tttcaccact	tgtgtttttt	gctcatgtat	accaagtagc	agtgggtgtga	480
ggccatgctt	gttttttgat	tccgatatac	caccgtataa	gagcagtgct	ttggccatta	540
atztatcttc	attgttagaca	gcatagtgta	gagtgggtatt	tccatactca	tctggaatat	600
ttggatcagt	gccatgttcc	agcaacatta	acgcacattc	atcttctctg	cattgtacgg	660
cctttgtcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	cgtctgtcca	720
gcacgagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	gcagtcctct	780
tttgcttgct	cctcttggtc	acatccgtgt	ccctgagcat	gacgatgaga	tcctttctgg	840
ggactttacc	ccaccaggca	gctctgtgga	gcttgctcag	atcttctcca	tggaacgtgt	900
acctgggagc	catgaaggcg	ctgtcatcgt	agtctcccca	agcgaccacg	ttgctcttgc	960
cgtctccctg	cagcagggga	agcagtggca	gcaccacttg	cacctcttgc	tcccaagcgt	1020
cttcacagag	gagtcgttgt	ggtctccaga	agtgccacag	ttgctcttgc	cgtctccctt	1080
gtccatccag	ggaggaagaa	atgcaggaaa	tgaagatgct	atgcacgatg	gtatactcct	1140
cagccatcaa	acttctggac	agcaggtcac	ttccagcaag	gtggagaaag	ctgtccaccc	1200
acagaggatg	agatccagaa	accacaatat	ccattcacia	acaaacactt	ttcagccaga	1260
cacagggtact	gaaatcatgt	catctgcggc	aacatggtgg	aacctaccca	atcacacatc	1320
aagagatgaa	gacactgcag	tatatctgca	caacgtaata	ctcttcatcc	ataacaaaat	1380
aataataattt	tcctctggag	ccatatggat	gaactatgaa	ggaagaactc	cccgaagaag	1440
ccagtcgcag	agaagccaca	ctgaagctct	gtcctcagcc	atcagcgcca	cggacaggag	1500
tgtgtttctt	ccccagtgat	gcagcctcaa	gttatcccg	agctgcgcga	gcacacgggtg	1560
gctcctgaga	aacaccccag	ctcttccggg	ctaacacagg	caagtcaata	aatgtgataa	1620
tcacataaac	agaattaaaa	gcaaagtcac	ataagcatct	caacagacac	agaaaaggca	1680
tttgacaaaa	tccagcatcc	ttgtatttat	tgttgacagt	ctcagaggaa	atgcttctaa	1740
cttttcccca	tttagtatta	tgttggtgtg	gggcttgcta	taggtgggtt	ttattacttt	1800
aaggatgtgc	ccttctatgc	ctgttttgct	gagggtttta	attctcgtgc	c	1851

<210> 292

<211> 1851

<212> DNA

<213> Homo sapien

<400> 292

tcatcaccat	tgccagcagc	ggcaccgtta	gtcaggtttt	ctgggaatcc	cacatgagta	60
cttccgtgtt	cttcattott	cttcaatagc	cataaatctt	ctagctctgg	ctggctgttt	120
tcacttcctt	taagcctttg	tgactcttcc	tctgatgtca	gctttaagtc	ttgttctgga	180
ttgctgtttt	cagaagagat	ttttaacatc	tgtttttctt	tgtagtcaga	aagtaactgg	240
caaattacat	gatgatgact	agaaacagca	tactctctgg	ccgtctttcc	agatcttgag	300
aagatacatc	aacatttttg	tcaagtagag	ggctgactat	acttgctgat	ccacaacata	360
cagcaagtat	gagagcagtt	cttccatata	tatccagcgc	atttaaattc	gcttttttct	420
tgattaaaaa	tttcaccact	tgctgttttt	gctcatgtat	accaagtagc	agtgggtgtga	480
ggccatgctt	gttttttgat	togatatacag	caccgtataa	gagcagtgtc	ttggccatta	540
atttatcttc	attgtagaca	gcatagtgta	gagtgggtatt	tccataactca	tctggaatat	600
ttggatcagt	gccatgttcc	agcaacatta	acgcacattc	atcttcctgg	cattgtacgg	660
cctttgtcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	cgtctgtcca	720
gcacgagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	gcagtcctct	780
tttgcttgtc	cctcttgttc	acatccgtgt	ccctgagcat	gacgatgaga	tcctttctgg	840
ggactttacc	ccaccaggca	gctctgtgga	gcttgtccag	atcttctcca	tggacgtggg	900
acctgggatc	catgaaggcg	ctgtcatcgt	agtctcccca	agcgaccacg	ttgctcttgc	960
cgctcccctg	cagcagggga	agcagtggca	gcaccacttg	cacctcttgc	tcccaagegt	1020
cttcacagag	gagtcgttgt	ggtctccaga	agtgccacg	ttgctcttgc	cgctcccctt	1080
gtccatccag	ggaggaagaa	atgcaggaaa	tgaaagatgc	atgcacgatg	gtataactcct	1140
cagccatcaa	acttctggac	agcaggtcac	ttccagcaag	gtggagaaa	ctgtccaccc	1200
acagaggatg	agatccagaa	accacaatat	ccattcacaa	acaaacactt	ttcagccaga	1260
cacaggtact	gaaatcatgt	catctgcggc	aacatgggtg	aacctacca	atcacacatc	1320
aagagatgaa	gacactgcag	tatatctgca	caacgtaata	ctcttcatcc	ataacaaaat	1380
aatataatth	tcctctggag	ccatatggtat	gaactatgaa	ggaagaactc	cccgaaaga	1440
ccagtgcgag	agaagccaca	ctgaagctct	gtcctcagcc	atcagcgcca	cggacaggar	1500
tgtgtttctt	ccccagtgat	gcagcctcaa	gttatcccg	agctgccgca	gcacacggtg	1560
gctcctgaga	aacaccccag	ctcttccggt	ctaacacagg	caagtcaata	aatgtgataa	1620
tcacataaac	agaattaaaa	gcaaagtcac	ataagcatct	caacagacac	agaaaaggca	1680
tttgacaaaa	tccagcatcc	ttgtatttat	tggtgcagtt	ctcagaggaa	atgcttctaa	1740
cttttcccca	tttagtatta	tggtggctgt	gggcttgta	taggtgggtt	ttattacttt	1800
aaggatatgtc	ccttctatgc	ctgttttgct	gagggtttta	attctcgtgc	c	1851

<210> 293

<211> 668

<212> DNA

<213> Homo sapien

<400> 293

cttgagcttc	caaataygga	agactggccc	ttacacasgt	caatgttaaa	atgaatgcat	60
ttcagtattt	tgaagataaa	attrgtagat	ctataccttg	ttttttgatt	cgatatcagc	120
accrtataag	agcagtgtt	tggccattaa	tttatctttc	attrtagaca	gcrtagtgya	180
gagtgggtatt	tccataactca	tctggaatat	ttggatcagt	gccatgttcc	agcaacatta	240
acgcacattc	atcttcctgg	cattgtacgg	cctgtcagta	ttagacccaa	aaacaaatta	300
catatcttag	gaattcaaaa	taacattcca	cagctttcac	caactagtta	tatttaaagg	360
agaaaactca	tttttatgcc	atgtattgaa	atcaaaccac	cctcatgctg	atatagttgg	420
ctactgcata	cctttatcag	agctgtcctc	tttttgttgt	caaggacatt	aagttgacat	480
cgtctgtcca	gcaggagttt	tactacttct	gaattcccat	tggcagaggc	cagatgtaga	540
gcagtcctat	gagagtgaga	agacttttta	ggaaattgta	gtgcactagc	tacagccata	600
gcaatgatth	atgtaactgc	aaacactgaa	tagcctgcta	ttactctgcc	ttcaaaaaaa	660
aaaaaaa						668

<210> 294
 <211> 1512
 <212> DNA
 <213> Homo sapien

<400> 294

gggtcgccca	gggggsgcgt	gggctttcct	cgggtgggtg	tgggttttcc	ctgggtgggg	60
tgggctgggc	trgaatcccc	tgctgggggt	ggcaggtttt	ggctgggatt	gacttttytc	120
ttcaaacaga	ttggaaaccc	ggagttacct	gctagttggt	gaaactgggt	ggtagacgcg	180
atctgttggc	tactactggc	ttctcctggc	tggtaaaagc	agatggtggt	tgaggttgat	240
tccatgccgg	ctgcttcttc	tgtgaagaag	ccatttggtc	tcaggagcaa	gatgggcaag	300
tggtgctgcc	gttgcttccc	ctgctgcagg	gagagcggca	agagcaacgt	gggcacttct	360
ggagaccacg	acgactctgc	tatgaagaca	ctcaggagca	agatgggcaa	gtggtgccgc	420
cactgcttcc	cctgctgcag	ggggagtggc	aagagcaacg	tgggcgcttc	tggagaccac	480
gacgaytctg	ctatgaagac	actcaggaac	aagatgggca	agtggtgctg	ccactgcttc	540
ccctgctgca	gggggagcrg	caagagcaag	gtgggcgctt	ggggagacta	cgatgacagt	600
gccttcatgg	agcccaggta	ccacgtccgt	ggagaagatc	tggacaagct	ccacagagct	660
gcctggtggg	gtaaagtccc	cagaaaggat	ctcatcgta	tgctcaggga	cactgacgtg	720
aacaagaagg	acaagcaaaa	gaggactgct	ctacatctgg	cctctgccaa	tgggaattca	780
gaagtagtaa	aactcstgct	ggacagacga	tgtcaactta	atgtccttga	caacaaaaag	840
aggacagctc	tgayaaaggc	cgtacaatgc	caggaagatg	aatgtgcgct	aatgttgctg	900
gaacatggca	ctgatccaaa	tattccagat	gagtatggaa	ataccactct	rcactaygct	960
rtctayaatg	aagataaatt	aatggccaaa	gcactgctct	tatayggtgc	tgatatcgaa	1020
tcaaaaaaca	aggtatagat	ctactaattt	tatcttcaaa	atactgaaat	gcattcattt	1080
taacattgac	gtgtgtaagg	gccagtcttc	cgtatttggg	agctcaagca	taacttgaat	1140
gaaaatattt	tgaaatgacc	taattatctm	agactttatt	ttaaataattg	ttattttcaa	1200
agaagcatta	gagggtagac	tttttttttt	ttaaatgcac	ttctggtaaa	tacttttggt	1260
gaaaacactg	aatttgtaaa	aggtaatact	tactattttt	caatttttcc	ctcctaggat	1320
ttttttcccc	taatgaatgt	aagatggcaa	aatttgccct	gaaatagggt	ttacatgaaa	1380
actccaagaa	aagttaaaca	tgtttcagtg	aatagagatc	ctgctccttt	ggcaagttcc	1440
taaaaaacag	taatagatac	gaggtgatgc	gcctgtcagt	ggcaagggtt	aagatatttc	1500
tgatctcgtg	cc					1512

<210> 295
 <211> 1853
 <212> DNA
 <213> Homo sapien

<400> 295

gggtcgccca	gggggsgcgt	gggctttcct	cgggtgggtg	tgggttttcc	ctgggtgggg	60
tgggctgggc	trgaatcccc	tgctgggggt	ggcaggtttt	ggctgggatt	gacttttytc	120
ttcaaacaga	ttggaaaccc	ggagttacct	gctagttggt	gaaactgggt	ggtagacgcg	180
atctgttggc	tactactggc	ttctcctggc	tggtaaaagc	agatggtggt	tgaggttgat	240
tccatgccgg	ctgcttcttc	tgtgaagaag	ccatttggtc	tcaggagcaa	gatgggcaag	300
tggtgctgcc	gttgcttccc	ctgctgcagg	gagagcggca	agagcaacgt	gggcacttct	360
ggagaccacg	acgactctgc	tatgaagaca	ctcaggagca	agatgggcaa	gtggtgccgc	420
cactgcttcc	cctgctgcag	ggggagtggc	aagagcaacg	tgggcgcttc	tggagaccac	480
gacgaytctg	ctatgaagac	actcaggaac	aagatgggca	agtggtgctg	ccactgcttc	540
ccctgctgca	gggggagcrg	caagagcaag	gtgggcgctt	ggggagacta	cgatgacagy	600
gccttcatgg	akcccaggta	ccacgtccrt	ggagaagatc	tggacaagct	ccacagagct	660
gcctggtggg	gtaaagtccc	cagaaaggat	ctcatcgta	tgctcaggga	cackgaygtg	720
aacaagargg	acaagcaaaa	gaggactgct	ctacatctgg	cctctgccaa	tgggaattca	780
gaagtagtaa	aactcstgct	ggacagacga	tgtcaactta	atgtccttga	caacaaaaag	840

```
<210> 296
<211> 2184
<212> DNA
<213> Homo sapien
```

<400> 296						
ggcacgagaa	ttaaaaccct	cagcaaaaca	ggcatagaag	ggacatacct	taaagtaata	60
aaaaccacct	atgacaagcc	cacagccaac	ataatactaa	atggggaaaa	gttagaagca	120
tttcctctga	gaactgcaac	aataaataca	aggatgctgg	attttgtcaa	atgccttttc	180
tgtgtctgtt	gagatgctta	tgtgactttg	cttttaattc	tgtttatgtg	attatcacat	240
ttattgactt	gcctgtgtta	gaccggaaga	gctgggggtg	ttctcaggag	ccaccgtgtg	300
ctgcggcagc	ttcgggataa	cttgaggctg	catcactggg	gaagaaacac	aytcctgtcc	360
gtggcgctga	tggctgagga	cagagcttca	gtgtggcttc	tctgcgactg	gottctctcg	420
ggagttcttc	cttcatagtt	catccatatg	gctccagagg	aaaattatat	tattttgtta	480
tggatgaaga	gtattacgtt	gtgcagatat	actgcagtgt	cttcatctct	tgatgtgtga	540
ttgggtaggt	tccaccatgt	tgccgcagat	gacatgattt	cagtacctgt	gtctggctga	600
aaagtgtttg	tttgtgaatg	gatattgtgg	tttctggatc	tcattcctctg	tgggtggaca	660
gctttctcca	ccttgcttga	agtgcacctg	tgtccagaag	tttgatggct	gaggagtata	720
ccatcgtgca	tgcactcttc	atttcctgca	tttcttcctc	cctggatgga	cagggggagc	780
ggcaagagca	acgtgggcac	ttctggagac	cacaacgact	cctctgtgaa	gacgcttggg	840
agcaagaggt	gcaagtgggtg	ctgccactgc	ttcccctgct	gcagggggagc	ggcaagagca	900
acgtggtcgc	ttggggagac	tacgatgaca	gcgccttcat	ggatcccagg	taccacgtcc	960
atggagaaga	tctggacaag	ctccacagag	ctgcctgggtg	gggtaaaagtc	cccagaaagg	1020
atctcatcgt	catgctcagg	gacacggatg	tgaacaagag	ggacaagcaa	aagaggactg	1080
ctctacatct	ggcctctgcc	aatgggaatt	cagaagtagt	aaaactcgtg	ctggacagac	1140
gatgtcaact	taatgtcctt	gacaacaaaa	agaggacagc	tctgacaaaag	gccgtacaat	1200
gccaggaaga	tgaatgtgcg	ttaatgttgc	tggaacatgg	cactgatcca	aatattccag	1260
atgagtatgg	aaataccact	ctacactatg	ctgtctacaa	tgaagataaa	ttaatggcca	1320
aagcactgct	cttatacggg	gctgatatcg	aatcaaaaaa	caagcatggc	ctcacaccac	1380
tgctacttgg	tatacatgag	caaaaacagc	aagtgggtgaa	atttttaatc	aagaaaaaag	1440
cgaatttaaa	tgcgctggat	agatatggaa	gaactgctct	catacttgct	gtatgttgtg	1500
gatcagcaag	tatagtcagc	cctctacttg	agcaaaatgt	tgatgtatct	tctcaagatc	1560
tggaaagacg	gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	1620
ttctgactac	aaagaaaaac	agtaggttaa	aatctcttct	gaaaacagca	atccagaaca	1680
agacttaaa	ctgacatcag	aggaagagtc	acaaaggctt	aaaggaagtg	aaaacagcca	1740
gccagaggca	tggaaaacttt	taaattttaa	cttttggttt	aatgtttttt	ttttttgctt	1800

taataatatt	agatagtccc	aatgaaatw	acctatgaga	ctaagctttg	agaatcaata	1860
gattcttttt	ttaagaatct	tttggctagg	agcgggtgtct	cacgcctgta	attccagcac	1920
cttgagaggc	tgaggtgggc	agatcacgag	atcaggagat	cgagaccatc	ctggctaaca	1980
cggtgaaacc	ccatctctac	taaaaataca	aaaacttagc	tgggtgtggt	ggcggtgcc	2040
tgtagtccca	gctactcagg	argctgaggc	aggagaatgg	catgaacccg	ggaggtggag	2100
gttgacgtga	gccgagatcc	gccactacac	tccagcctgg	gtgacagagc	aagactctgt	2160
ctcaaaaaaa	aaaaaaaaaa	aaaa				2184

<210> 297

<211> 1855

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1855)

<223> n = A,T,C or G

<400> 297

tgcacgcac	ggccagtgtc	tgtgccacgt	acactgacgc	cccctgagat	gtgcacgccg	60
cacgcgcac	ttgcacgcgc	ggcagcggct	tggtctggctt	gtaacggctt	gcacgcgcac	120
gccgcccccg	cataaccgtc	agactggcct	gtaacggctt	gcagcgcac	gccgcacgcg	180
cgtaacggct	tggtgcct	gtaacggctt	gcacgtgcat	gctgcacgcg	cgtaacggc	240
ttggctggca	tgtagccgt	tggtctggct	ttgcattytt	tgctkggctk	ggcgttgkty	300
tcttgattg	acgcttcctc	cttgatkgac	cgtttctctc	ttgatkgac	gtttctyty	360
tcgcgttctc	ttgctggact	tgacctttty	tctgctgggt	ttggcattcc	tttgggtgg	420
gctgggtgtt	ttctccgggg	gggktkgccc	ttctctgggt	gggcgtgggk	cgccccagg	480
gggcgtgggc	tttcccgggg	tgggtgtggg	tttctctggg	gtgggtggg	ctgtgctggg	540
atccccctgc	tggggtggc	agggattgac	tttttcttct	aaacagattg	gaaacccgga	600
gtaacntgct	agttggtgaa	actggttggg	agacgcgac	tgctggtact	actgtttctc	660
ctggctgtta	aaagcagatg	gtggctgagg	ttgattcaat	gccggctgct	tcttctgtga	720
agaagccatt	tggtctcagg	agcaagatgg	gcaagtgggtg	cgcactgct	tcccctgctg	780
cagggggagc	ggcaagagca	acgtgggcac	ttctggagac	cacaacgact	cctctgtgaa	840
gacgcttggg	agcaagaggt	gcaagtgggtg	ctgcccactg	cttcccctgc	tgacggggag	900
cggcaagagc	aacgtggkcg	cttggggaga	ctacgatgac	agcgccttca	tggakcccag	960
gtaccacgtc	crtggagaag	atctggacaa	gctccacaga	gctgcctggg	ggggtaaaag	1020
ccccagaaag	gatctcatcg	tcatgctcag	ggacactgay	gtgaacaaga	rggacaagca	1080
aaagaggact	gctctacatc	tggcctctgc	caatgggaat	tcagaagtag	taaaactcgt	1140
gctggacaga	cgatgtcaac	ttaatgtcct	tgacaacaaa	aagaggacag	ctctgacaaa	1200
ggcgtacaa	tgccaggaag	atgaatgtgc	gttaatgttg	ctggaacatg	gcactgatcc	1260
aaatattcca	gatgagtatg	gaaataccac	tctacactat	gctgtctaca	atgaagataa	1320
attaatggcc	aaagcactgc	tcttatacgg	tgctgatata	gaatcaaaaa	acaaggtata	1380
gatctactaa	ttttatcttc	aaaatactga	aatgcattca	ttttaacatt	gacgtgtgta	1440
agggccagtc	ttccgtatct	ggaagctcaa	gcataacttg	aatgaaaata	ttttgaaatg	1500
acctaattat	ctaaagacttt	atttttaaata	ttgttatttt	caaagaagca	ttagagggtg	1560
cagttttttt	tttttaaatg	cacttctggg	aaatactttt	gttgaaaaca	ctgaatttgt	1620
aaaaggtaat	acttactatt	tttcaatttt	tccctcctag	gatttttttc	ccctaataaa	1680
tgtaagatgg	caaaatttgc	cctgaaatag	gttttacatg	aaaactccaa	gaaaagttaa	1740
acatgtttca	gtgaatagag	atcctgctcc	tttggaaggt	tcctaaaaaa	cagtaataga	1800
tacgaggtga	tgcgctgtc	agtggcaagg	tttaagatat	ttctgatctc	gtgcc	1855

<210> 298

<211> 1059

<212> DNA

<213> Homo sapien

<400> 298

```

gcaacgtggg cacttctgga gaccacaacg actcctctgt gaagacgctt gggagcaaga    60
ggtgcaagtg gtgctgcccc ctgcttcccc tgctgcaggg gagcggcaag agcaacgtgg    120
gcgcttgrgg agactmcgat gacagygcct tcatggagcc caggtaccac gtccgtggag    180
aagatctgga caagctccac agagctgccc tgggtgggta aagtccccag aaaggatctc    240
atcgtcatgc tcagggacac tgaygtgaac aagarggaca agcaaaagag gactgctcta    300
catctggcct ctgccaatgg gaattcagaa gtagtaaaac tcstgctgga cagacgatgt    360
caacttaatg tccttgacaa caaaaagagg acagctctga yaaaggccgt acaatgccag    420
gaagatgaat gtgcgttaat gttgctggaa catggcactg atccaaatat tccagatgag    480
tatggaaata ccactctrca ctaygctrct tayaatgaag ataaattaat ggccaaagca    540
ctgctcttat ayggtgctga tatcgaatca aaaaacaagg tatagatcta ctaattttat    600
cttcaaaata ctgaaatgca ttcattttta cattgacgtg tgtaagggcc agtcttccgt    660
atitggaagc tcaagcataa cttgaatgaa aatattttga aatgacctaa ttatctaaga    720
ctttattttt aatattgtta ttttcaaaga agcattagag ggtacagttt ttttttttta    780
aatgcacttc tggtaaatac ttttggtgaa aacactgaat ttgtaaaagg taatacttac    840
tattttttcaa tttttccctc ctaggatttt tttcccctaa tgaatgtaag atggcaaaat    900
ttgccctgaa ataggtttta catgaaaact ccaagaaaag ttaaacaatgt ttcagtgaat    960
agagatcctg ctcctttggc aagttcctaa aaaacagtaa tagatacgag gtgatgcgcc   1020
tgtcagtggc aaggtttaag atattttctga tctcgtgcc   1059

```

<210> 299

<211> 329

<212> PRT

<213> Homo sapien

<400> 299

```

Met Asp Ile Val Val Ser Gly Ser His Pro Leu Trp Val Asp Ser Phe
 1          5          10          15
Leu His Leu Ala Gly Ser Asp Leu Leu Ser Arg Ser Leu Met Ala Glu
          20          25          30
Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
          35          40          45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
          50          55          60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
65          70          75          80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
          85          90          95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
          100          105          110
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
          115          120          125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
          130          135          140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
145          150          155          160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
          165          170          175
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
          180          185          190
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
          195          200          205

```

```

Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
 210                215                220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
225                230                235                240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
                245                250                255
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys
                260                265                270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
                275                280                285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
                290                295                300
Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
305                310                315                320
Ser Met Leu Phe Leu Val Ile Ile Met
                325

```

```

<210> 300
<211> 148
<212> PRT
<213> Homo sapien

```

```

<220>
<221> VARIANT
<222> (1)...(148)
<223> Xaa = Any Amino Acid

```

```

<400> 300
Met Thr Xaa Pro Ser Trp Ser Pro Gly Thr Thr Ser Val Glu Lys Ile
 1                5                10                15
Trp Thr Ser Ser Thr Glu Leu Pro Trp Trp Gly Lys Val Pro Arg Lys
                20                25                30
Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys
                35                40                45
Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu
                50                55                60
Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp
                65                70                75                80
Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp
                85                90                95
Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro
                100                105                110
Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp
                115                120                125
Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser
                130                135                140
Lys Asn Lys Val
145

```

```

<210> 301
<211> 1155
<212> DNA
<213> Homo sapien

```

<400> 301

atggtggttg	aggttgattc	catgccggct	gcctcttctg	tgaagaagcc	atttgggtctc	60
aggagcaaga	tgggcaagtg	gtgctgccgt	tgtttccctt	gctgcaggga	gagcggcaag	120
agcaacgtgg	gcacttcttg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgccgcca	ctgcttcccc	tgctgcaggg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg	gagaccacga	cgactctgct	atgaagacac	tcaggaacaa	gatgggcaag	300
tggtgctgcc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	gggcgcttgg	360
ggagactacg	atgacagtgc	cttcatggag	cccagggtacc	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctggtggggg	aaagtcccca	gaaaggatct	catcgtcatg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaga	ggactgctct	acatctggcc	540
tctgccaatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgatg	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaggccg	tacaatgcca	ggaagatgaa	660
tgtgcgtaa	tgttgctgga	acatggcaact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgctat	ctataatgaa	gataaattaa	tggccaaagc	actgctctta	780
tatggtgctg	atatcgaatc	aaaaaacaag	catggcctca	caccactgtt	acttgggtgta	840
catgagcaaa	aacagcaagt	cgtgaaatct	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgtctctcata	cttgcgtgat	gttgtggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaaa	tgtctcaaga	1140
accagaaata	aataa					1155

<210> 302

<211> 2000

<212> DNA

<213> Homo sapien

<400> 302

atggtggttg	aggttgattc	catgccggct	gcctcttctg	tgaagaagcc	atttgggtctc	60
aggagcaaga	tgggcaagtg	gtgctgccgt	tgtttccctt	gctgcaggga	gagcggcaag	120
agcaacgtgg	gcacttcttg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgccgcca	ctgcttcccc	tgctgcaggg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg	gagaccacga	cgactctgct	atgaagacac	tcaggaacaa	gatgggcaag	300
tggtgctgcc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	gggcgcttgg	360
ggagactacg	atgacagtgc	cttcatggag	cccagggtacc	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctggtggggg	aaagtcccca	gaaaggatct	catcgtcatg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaga	ggactgctct	acatctggcc	540
tctgccaatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgatg	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaggccg	tacaatgcca	ggaagatgaa	660
tgtgcgtaa	tgttgctgga	acatggcaact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgctat	ctataatgaa	gataaattaa	tggccaaagc	actgctctta	780
tatggtgctg	atatcgaatc	aaaaaacaag	catggcctca	caccactgtt	acttgggtgta	840
catgagcaaa	aacagcaagt	cgtgaaatct	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgtctctcata	cttgcgtgat	gttgtggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaaa	agacttaaaag	1140
ctgacatcag	aggaagagtc	acaaagggtc	aaaggcagtg	aaaatagcca	gccagagaaa	1200
atgtctcaag	aaccagaaat	aaataaggat	ggtgatagag	agggtgaaga	agaaatgaag	1260
aagcatgaaa	gtaataatgt	gggattacta	gaaaacctga	ctaattggtgt	cactgctggc	1320
aatggtgata	atggattaat	tcctcaaaag	aagagcagaa	cacctgaaaa	tcagcaattt	1380
cctgacaacg	aaagtgaaga	gtatcacaga	atttgcgat	tagtttctga	ctacaaagaa	1440
aaacagatgc	caaaatactc	ttctgaaaac	agcaaccocag	aacaagactt	aaagctgaca	1500
tcagaggaag	agtcacaaaag	gcttgagggc	agtgaaaatg	gccagccaga	gctagaaaat	1560

tttatggcta	tcgaagaaat	gaagaagcac	ggaagtactc	atgtcggatt	cccagaaaac	1620
ctgactaatg	gtgccactgc	tggcaatggg	gatgatggat	taattcctcc	aaggaagagc	1680
agaacacctg	aaagccagca	atttcctgac	actgagaatg	aagagtatca	cagtgcagaa	1740
caaaatgata	ctcagaagca	attttgtgaa	gaacagaaca	ctggaatatt	acacgatgag	1800
attctgattc	atgaagaaaa	gcagatagaa	gtggttgaaa	aatgaattc	tgagctttct	1860
cttagttgta	agaaagaaaa	agacatcttg	catgaaaata	gtacgttgcg	ggaagaaatt	1920
gccatgctaa	gactggagct	agacacaatg	aaacatcaga	gccagctaaa	aaaaaaaaaa	1980
aaaaaaaaaa	aaaaaaaaaa					2000

<210> 303

<211> 2040

<212> DNA

<213> Homo sapien

<400> 303

atgggtggttg	aggttgattc	catgccggct	gcctcttctg	tgaagaagcc	atttggctctc	60
aggagcaaga	tgggcaagtg	gtgctgccgt	tgcttccctt	gctgcaggga	gagcggcaag	120
agcaacgtgg	gcacttctgg	agaccacgac	gactctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgccgcca	ctgcttcccc	tgctgcaggg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg	gagaccacga	cgactctgct	atgaagacac	tcaggaacaa	gatgggcaag	300
tggtgctgcc	actgcttccc	ctgctgcagg	gggagcggca	agagcaaggt	ggcgcttgg	360
ggagactacg	atgacagtgc	cttcatggag	cccaggtaac	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctggtggggg	aaagtcccca	gaaaggatct	catcgatcatg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaaga	ggactgctct	acatctggcc	540
tctgccaatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgatg	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaggccg	tacaatgcca	ggaagatgaa	660
tgtgcgttaa	tgttgctgga	acatggcact	gatccaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgctat	ctataatgaa	gataaattaa	tggccaaaagc	actgctctta	780
tatggtgctg	atatcgaatc	aaaaaaacaag	catggcctca	caccactgtt	acttgggtgta	840
catgagcaaa	aacagcaagt	cgtgaaatth	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgctctcata	cttgcgtgat	gttggtggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080
aaagaaaaac	agatgctaaa	aatctcttct	gaaaacagca	atccagaaca	agacttaaag	1140
ctgacatcag	aggaagagtc	acaaagggtc	aaaggcagtg	aaaatagcca	gccagagaaa	1200
atgtctcaag	aaccagaaat	aaataaggat	ggtgatagag	agggtgaaga	agaaatgaag	1260
aagcatgaaa	gtaataatgt	gggattacta	gaaaacctga	ctaattggtgt	cactgctggc	1320
aatggtgata	atggattaat	tcctcaaagg	aagagcagaa	cacctgaaaa	tcagcaatth	1380
cctgacaacg	aaagtgaaga	gtatcacaga	atthgcgaat	tagthttctga	ctacaaagaa	1440
aaacagatgc	caaaaatactc	ttctgaaaac	agcaaccag	aacaagactt	aaagctgaca	1500
tcagaggaag	agtcacaaaag	gcttgagggc	agtgaaaatg	gccagccaga	gaaaagatct	1560
caagaaccag	aaataaataa	ggatggtgat	agagagctag	aaaattttat	ggctatcgaa	1620
gaaatgaaga	agcacggaag	tactcatgtc	ggattcccag	aaaacctgac	taatggtgcc	1680
actgctggca	atggtgatga	tggattaatt	cctccaagga	agagcagaac	acctgaaaagc	1740
cagcaatttc	ctgacactga	gaatgaagag	tatcacagtg	acgaacaaaa	tgatactcag	1800
aagcaattth	gtgaagaaca	gaacactgga	atattacacg	atgagattct	gattcatgaa	1860
gaaaagcaga	tagaagtggg	tgaaaaaatg	aattctgagc	tttctcttag	ttgtaagaaa	1920
gaaaaagaca	tcttgcatga	aaatagtacg	ttgcgggaag	aaattgccat	gctaagactg	1980
gagctagaca	caatgaaaca	tcagagccag	ctaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2040

<210> 304

<211> 384

<212> PRT

<213> Homo sapien

<400> 304

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys
1				5					10					15	
Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
			20					25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40					45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70				75					80	
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
		115					120					125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155				160	
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180				185						190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
	195						200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235				240	
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260				265						270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
	275					280						285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
	290					295				300					
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310				315					320	
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340				345						350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
	355					360						365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Asn	Val	Ser	Arg	Thr	Arg	Asn	Lys
	370					375					380				

<210> 305

<211> 656

<212> PRT

<213> Homo sapien

<400> 305

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys
1			5					10					15		
Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
		20						25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
		35					40				45				
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50					55					60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70				75					80	
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
			100					105					110		
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
			115					120				125			
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130					135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
			180					185					190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
	195						200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260				265						270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
	275						280					285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
	290					295					300				
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310				315						320
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
	355					360						365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu
	370					375					380				
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys
385					390					395					400
Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu

405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys
 515 520 525
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly
 530 535 540
 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser
 545 550 555 560
 Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr
 565 570 575
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln
 580 585 590
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln
 595 600 605
 Ile Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys
 610 615 620
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile
 625 630 635 640
 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 645 650 655

<210> 306

<211> 671

<212> PRT

<213> Homo sapien

<400> 306

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125

Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
130						135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
			165						170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
		180					185						190		
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
	195						200					205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
210						215					220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
			245						250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
			260					265					270		
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
		275					280					285			
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
290						295					300				
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345					350		
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Gln	Met	Leu	Lys	Ile
		355					360					365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp	Leu	Lys	Leu	Thr	Ser	Glu
370						375					380				
Glu	Glu	Ser	Gln	Arg	Phe	Lys	Gly	Ser	Glu	Asn	Ser	Gln	Pro	Glu	Lys
385					390					395					400
Met	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp	Gly	Asp	Arg	Glu	Val	Glu
				405					410					415	
Glu	Glu	Met	Lys	Lys	His	Glu	Ser	Asn	Asn	Val	Gly	Leu	Leu	Glu	Asn
		420						425				430			
Leu	Thr	Asn	Gly	Val	Thr	Ala	Gly	Asn	Gly	Asp	Asn	Gly	Leu	Ile	Pro
		435					440					445			
Gln	Arg	Lys	Ser	Arg	Thr	Pro	Glu	Asn	Gln	Gln	Phe	Pro	Asp	Asn	Glu
450						455					460				
Ser	Glu	Glu	Tyr	His	Arg	Ile	Cys	Glu	Leu	Val	Ser	Asp	Tyr	Lys	Glu
465					470					475					480
Lys	Gln	Met	Pro	Lys	Tyr	Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Gln	Asp
				485					490					495	
Leu	Lys	Leu	Thr	Ser	Glu	Glu	Glu	Ser	Gln	Arg	Leu	Glu	Gly	Ser	Glu
			500					505				510			
Asn	Gly	Gln	Pro	Glu	Lys	Arg	Ser	Gln	Glu	Pro	Glu	Ile	Asn	Lys	Asp
		515					520					525			
Gly	Asp	Arg	Glu	Leu	Glu	Asn	Phe	Met	Ala	Ile	Glu	Glu	Met	Lys	Lys
530						535					540				
His	Gly	Ser	Thr	His	Val	Gly	Phe	Pro	Glu	Asn	Leu	Thr	Asn	Gly	Ala
545					550					555					560

Thr	Ala	Gly	Asn	Gly	Asp	Asp	Gly	Leu	Ile	Pro	Pro	Arg	Lys	Ser	Arg
				565					570					575	
Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr	His
				580				585						590	
Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe	Cys	Glu	Glu	Gln	Asn
				595				600						605	
Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His	Glu	Glu	Lys	Gln	Ile
						615					620				
Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser	Leu	Ser	Cys	Lys	Lys
					630					635					640
Glu	Lys	Asp	Ile	Leu	His	Glu	Asn	Ser	Thr	Leu	Arg	Glu	Glu	Ile	Ala
				645						650				655	
Met	Leu	Arg	Leu	Glu	Leu	Asp	Thr	Met	Lys	His	Gln	Ser	Gln	Leu	
				660				665						670	

```
<210> 307
<211> 800
<212> DNA
<213> Homo sapien
```

<400> 307

atkagcttcc	gcttctgaca	acactagaga	tccctccctt	ccctcagggg	atggccctcc	60
acttcatttt	tggtagataa	catctttata	ggacaggggt	aaaatcccaa	tactaacagg	120
agaatgctta	ggactctaac	aggtttttga	gaatgtgttg	gtaagggcca	ctcaatccaa	180
tttttcttgg	tcctccttgt	ggtctaggag	gacaggcaag	ggtgcagatt	ttcaagaatg	240
catcagtaag	ggccactaaa	tccgaccttc	ctcgttcctc	cttgtgggtct	gggaggaaaa	300
ctagtgtttc	tgttgctgtg	tcagtgagca	caactattcc	gatcagcaag	gtccagggac	360
cactgcaagg	tcttgggcag	ggggagaaac	aaaacaaacc	aaaacctatg	gcrgttttgt	420
ctttcagatg	ggaaacactc	aggcatcaac	aggctcacct	ttgaaatgca	tcctaagcca	480
atggggacaaa	tttgacccac	aaaccctgga	aaaagagggt	gctcattttt	tttgcactat	540
ggcttggccc	caacattctc	tctctgatgg	ggaaaaatgg	ccacctgagg	gaagtacaga	600
ttacaatact	atcctgcagc	ttgacctttt	ctgtaagagg	gaaggcaaat	ggagtgaaat	660
accttatgtc	caagctttct	tttcattgaa	ggagaataca	ctatgcaaa	cttgaaattt	720
acatcccaca	ggaggacctc	tcagcttacc	cccatatcct	agcctcccta	tagctcccct	780
tcctattagt	gataagcctc					800

```
<210> 308
<211> 102
<212> PRT
<213> Homo sapien
```

```
<220>  
<221> VARIANT  
<222> (1)...(102)  
<223> Xaa = Any Amino Acid
```

<400> 308

Met	Gly	Xaa	Phe	Val	Phe	Gln	Met	Gly	Asn	Thr	Gln	Ala	Ser	Thr	Gly
1				5					10					15	
Ser	Pro	Leu	Lys	Cys	Ile	Leu	Ser	Gln	Trp	Asp	Lys	Phe	Asp	Pro	Gln
			20					25					30		
Thr	Leu	Glu	Lys	Glu	Val	Ala	His	Phe	Phe	Cys	Thr	Met	Ala	Trp	Pro
		35					40					45			
Gln	His	Ser	Leu	Ser	Asp	Gly	Glu	Lys	Trp	Pro	Pro	Glu	Gly	Ser	Thr

50					55					60					
Asp	Tyr	Asn	Thr	Ile	Leu	Gln	Leu	Asp	Leu	Phe	Cys	Lys	Arg	Glu	Gly
65					70					75					80
Lys	Trp	Ser	Glu	Ile	Pro	Tyr	Val	Gln	Ala	Phe	Phe	Ser	Leu	Lys	Glu
				85					90					95	
Asn	Thr	Leu	Cys	Lys	Ala										
			100												

<210> 309
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in the lab

<400> 309
 Leu Met Ala Glu Glu Tyr Thr Ile Val
 1 5

<210> 310
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in the lab

<400> 310
 Lys Leu Met Ala Lys Ala Leu Leu Leu
 1 5

<210> 311
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in the lab

<400> 311
 Gly Leu Thr Pro Leu Leu Leu Gly Ile
 1 5

<210> 312
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in the lab

<400> 312
 Lys Leu Val Leu Asp Arg Arg Cys Gln Leu

1

5

10

<210> 313
 <211> 1852
 <212> DNA
 <213> Homo sapiens

<400> 313

ggcagcagaa	ttaaaaccct	cagcaaaaaca	ggcatagaag	ggacatacct	taaagtaata	60
aaaaccacct	atgacaagcc	cacagccaac	ataatactaa	atggggaaaa	gttagaagca	120
tttcctctga	gaactgcaac	aataaatata	aggatgctgg	attttgtcaa	atgccttttc	180
tgtgtctgtt	gagatgctta	tgtgactttg	cttttaattc	tgtttatgtg	attatcacat	240
ttattgactt	gcctgtgtta	gaccggaaga	gctgggggtg	ttctcaggag	ccaccgtgtg	300
ctgcggcagc	ttcgggataa	cttgaggctg	catcactggg	gaagaaacac	aytcctgtcc	360
gtggcgctga	tggctgagga	cagagcttca	gtgtggcttc	tctgcgactg	gcttcttcgg	420
ggagtctctc	cttcatagtt	catccatatg	gctccagagg	aaaattatat	tattttgtta	480
tggatgaaga	gtattacgtt	gtgcagatat	actgcagtgt	cttcactctc	tgatgtgtga	540
ttgggtaggt	tccaccatgt	tgccgcagat	gacatgattt	cagtacctgt	gtctggctga	600
aaagtgtttg	tttgtgaatg	gataattgtg	tttctggatc	tcatcctctg	tgggtggaca	660
gctttctcca	ccttgctgga	agtgcactgc	tgtccagaag	tttgatggct	gaggagtata	720
ccatcgtgca	tgcactcttc	atttcctgca	tttcttcctc	cctggatgga	cagggggagc	780
ggcaagagca	acgtgggcac	ttctggagac	cacaacgact	cctctgtgaa	gacgcttggg	840
agcaagaggt	gcaagtgggt	ctgccactgc	ttcccctgct	gcagggggag	cggcaagagc	900
aacgtggctg	cttggggaga	ctacgatgac	agcgccttca	tggatcccag	gtaccacgtc	960
catggagaag	atctggacaa	gctccacaga	gctgcctggg	ggggtaaagt	cccagaaaag	1020
gatctcatcg	tcatgctcag	ggacacggat	gtgaacaaga	gggacaagca	aaagaggact	1080
gctctacatc	tggcctctgc	caatgggaat	tcagaagtag	taaaactcgt	gctggacaga	1140
cgatgtcaac	ttaatgtcct	tgacaacaaa	aagaggacag	ctctgacaaa	ggccgtacaa	1200
tgccaggaag	atgaatgtgc	gttaatgttg	ctggaacatg	gactgatcc	aaatattcca	1260
gatgagtatg	gaaataccac	tctacactat	gctgtctaca	atgaagataa	attaatggcc	1320
aaagcactgc	tcttatacgg	tgtgatatac	gaatcaaaaa	acaagcatgg	cctcacacca	1380
ctgctacttg	gtatacatga	gcaaaaacag	caagtgggtga	aattttttaa	caagaaaaaa	1440
gcgaatttaa	atgcgctgga	tagatatgga	agaactgctc	tcatacttgc	tgtatgttgt	1500
ggatcagcaa	gtatagtcag	ccctctactt	gagcaaaaatg	ttgatgtatc	ttctcaagat	1560
ctggaaagac	ggccagagag	tatgctgttt	ctagtcatca	tcatgtaatt	tgccagttac	1620
tttctgacta	caaagaaaaa	cagatgttaa	aaatctcttc	tgaaaacagc	aatccagaac	1680
aagacttaaa	gctgacatca	gaggaagagt	cacaaaggct	taaaggaagt	gaaaacagcc	1740
agccagagct	agaagattta	tggctattga	agaagaatga	agaacacgga	agtactcatg	1800
tgggattccc	agaaaacctg	actaacgggtg	ccgctgctgg	caatggtgat	ga	1852

<210> 314
 <211> 879
 <212> DNA
 <213> Homo sapiens

<400> 314

atgcactctt	catttctctg	atttcttctc	ccctggatgg	acagggggag	cggcaagagc	60
aaagtgggca	cttctggaga	ccacaacgac	tcctctgtga	agacgcttgg	gagcaagagg	120
tgaagtgggt	gctgccactg	cttcccctgc	tgcaggggga	gcggcaagag	caacgtgggtc	180
gcttggggag	actacgatga	cagcgccttc	atggatccca	ggtaccacgt	ccatggagaa	240
gatctggaca	agctccacag	agctgcctgg	tggggtaaag	tcccagaaa	ggatctcatc	300
gtcatgtctc	gggacacgga	tgtgaacaag	agggacaagc	aaaagaggac	tgctctacat	360
ctggcctctg	ccaatgggaa	ttcagaagta	gtaaaactcg	tgctggacag	acgatgtcaa	420
cttaattgtc	ttgacaacaa	aaagaggaca	gctctgacaa	aggccgtaca	atgccaggaa	480

```

gatgaatgtg cgtaaattgtt gctggaacat ggcactgatc caaatattcc agatgagtat 540
ggaaataacca ctctacacta tgctgtctac aatgaagata aattaatggc caaagcactg 600
ctcttatacgt gtgctgatat cgaatcaaaa aacaagcatg gcctcacacc actgctactt 660
ggtatacatgt agcaaaaaca gcaagtgggtg aaatttttaa tcaagaaaaa agcgaattta 720
aatgcgctgtg atagatatgtg aagaactgct ctcatacttg ctgtatgttg tggatcagca 780
agtatagtca gccctctact tgagcaaaat gttgatgtat cttctcaaga tctggaaaga 840
cggccagaga gtatgctgtt tctagtcac c atcatgtaa 879

```

<210> 315

<211> 292

<212> PRT

<213> Homo sapiens

<400> 315

```

Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
              5                      10                      15

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
              20                      25                      30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
              35                      40                      45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
              50                      55                      60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
              65                      70                      75                      80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
              85                      90                      95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
              100                     105                     110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
              115                     120                     125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
              130                     135                     140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
              145                     150                     155                     160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
              165                     170                     175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
              180                     185                     190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
              195                     200                     205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu

```


210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Lys Ala Asn Leu
 225 230 235 240

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
 245 250 255

Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
 260 265 270

Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu
 275 280 285

Val Ile Ile Met
 290

<210> 316
 <211> 584
 <212> DNA
 <213> Homo sapiens

<400> 316

agttgggcca	aattcccctc	cccctacagc	ttgaagggga	cataaccaat	agcctggggt	60
ttttttgttg	tcctttggag	atttctttgc	ttattttctt	ctgggtgggg	gtgattagag	120
gaggcttatt	actaatagga	aggggagcta	tagggaggct	aggatatggg	ggtaagctga	180
gaggtcctcc	tgtgggatgt	aaatttcaag	ctttgcatag	tgtattctcc	ttcaatgaaa	240
agaaagcttg	gacataaggt	atttcacttc	atttgccctc	cctcttacag	aaaaggtcaa	300
gctgcaggat	agtattgtaa	tctgtacttc	cctcagggtg	ccatttttcc	ccatcagaga	360
gagaatgttg	gggccaaagg	atagtgcaga	aaaaaaaaatg	agccacctct	ttttccaggg	420
tttgtgggtc	aaatttgtcc	cattggctta	ggatgcattt	caaaggtgag	cctgttgatg	480
cctgagtgtt	tcccatctga	aagacaaaac	tgcccatggt	tttggtttgt	tttgtttctc	540
cccctgccca	agaactatca	aactcctgag	ccaacaacta	aaaa		584

<210> 317
 <211> 829
 <212> DNA
 <213> Homo sapiens

<400> 317

attagcttcc	gcttctgaca	acactagaga	tccctcccct	ccctcagggt	atggccctcc	60
acttcatttt	tggtacataa	catctttata	ggacaggggt	aaaatcccaa	tactaacagg	120
agaatgctta	ggactctaac	aggtttttga	gaatgtgttg	gtaagggcca	ctcaatccaa	180
tttttcttgg	tctccttgt	ggtctaggag	gacaggcaag	ggtgcagatt	ttcaagaatg	240
catcagtaag	ggccactaaa	tccgaccttc	ctcgttcctc	cttgtggtct	gggaggaaaa	300
ctagtgtttc	tgttgctgtg	tcagtgcagc	caactatttc	gatcagcagg	gtccaggggc	360
cactgcagg	tcttgggcag	ggggagaaac	aaaacaaacc	aaaaccatgg	gcagttttgt	420
ctttcagatg	ggaaacactc	aggcatcaac	aggctcacct	ttgaaatgca	tcctaagcca	480
atgggacaaa	tttgaccac	aaacctgga	aaaagagggtg	gctcattttt	tttgactat	540
ggcttggccc	caacattctc	tctctgatgg	ggaaaaatgg	ccacctgagg	gaagtacaga	600
ttacaatact	atcctgcagc	ttgacctttt	ctgtaagagg	gaaggcaaat	ggagtgaat	660
accttatgtc	caagctttct	tttcattgaa	ggagaataca	ctatgcaaag	cttgaaattt	720
acatcccaca	ggaggacctc	tcagcttacc	cccatatcct	agcctcccta	tagctcccct	780
tcctattagt	gataagcctc	ctctaatac	ccccaccag	aagaaaata		829

<210> 318
 <211> 30
 <212> PRT
 <213> Homo sapien

<400> 318
 Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe
 1 5 10 15
 Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile
 20 25 30

<210> 319
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 319
 ggcctctgcc aatgggaact cagaagtagt aaaactcctg c 41

<210> 320
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 320
 gcaggagttt tactacttct gagttcccat tggcagaggc c 41

<210> 321
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 321
 ggggaattcc cgctggtgcc gcgcggcagc cctatggtgg ttgaggttga 50
 ttccatgccg 60

<210> 322
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 322

cccgaattct tatttatttc tggttcttga gacattttct gg 42

<210> 323
 <211> 1590
 <212> DNA
 <213> Homo sapiens

<400> 323
 atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtgg 60
 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
 accgttcata tcgggcctac cgccttcctc ggcttggttg ttgtcgacaa caacggcaac 180
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcatcatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360
 ggcacgcgta caggaacgt gacattggcc gagggacccc cggccgaatt cccgctggtg 420
 ccgcgcggca gccctatggt ggttgaggtt gattccatgc cggctgcttc ttctgtgaag 480
 aagccatttg gtctcaggag caagatgggc aagtgggtgt gccgttgctt cccctgctgc 540
 agggagagcg gcaagagcaa cgtgggcact tctggagacc acgacgactc tgctatgaag 600
 aactcagga gcaagatggg caagtgggtc cgccactgct tccctgctg cagggggagt 660
 ggcaagagca acgtgggcgc ttctggagac cacgacgact ctgctatgaa gacactcagg 720
 aacaagatgg gcaagtgggt ctgccactgc ttccctgct gcagggggag cggcaagagc 780
 aaggtgggcg cttggggaga ctacgatgac agygccctca tggagcccag gtaccacgtc 840
 cgtggagaag atctggacaa gctccacaga gctgcctggt ggggtaaagt cccagaaaag 900
 gatctcatcg tcatgctcag ggacactgac gtgaacaaga aggacaagca aaagaggact 960
 gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcct gctggacaga 1020
 cgatgtcaac ttaatgtcct tgacaacaaa aagaggacag ctctgataaa ggccgtacaa 1080
 tgccaggaag atgaatgtgc gttaatgttg ctggaacatg gcaactgatcc aaatattcca 1140
 gatgagtatg gaaataccac tctgcactac gctatctata atgaagataa attaattgcc 1200
 aaagcactgc tcttatatgg tgctgatatc gaatcaaaaa acaagcatgg cctcacacca 1260
 ctgttacttg gtgtacatga gcaaaaacag caagtcgtga aatttttaat caagaaaaaa 1320
 gcgaatttaa atgcactgga tagatatgga aggactgctc tcatacttgc tgtatgttgt 1380
 ggatcagcaa gtatagtcag ctttctactt gagcaaaata ttgatgtatc ttctcaagat 1440
 ctatctggac agacggccag agagtatgct gtttctagtc atcatcatgt aatttgccag 1500
 ttactttctg actacaaaga aaaacagatg ctaaaaatct cttctgaaaa cagcaatcca 1560
 gaaaatgtct caagaaccag aaataaataa 1590

<210> 324
 <211> 529
 <212> PRT
 <213> Homo sapiens

<400> 324

Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
 5 10 15
 Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
 20 25 30
 Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
 35 40 45
 Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
 50 55 60
 Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
 65 70 75 80
 Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
 85 90 95
 Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
 100 105 110
 Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
 115 120 125
 Leu Ala Glu Gly Pro Pro Ala Glu Phe Pro Leu Val Pro Arg Gly Ser
 130 135 140
 Pro Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys
 145 150 155 160
 Lys Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys
 165 170 175
 Phe Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly
 180 185 190
 Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys
 195 200 205
 Trp Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn
 210 215 220
 Val Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg
 225 230 235 240
 Asn Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly
 245 250 255
 Ser Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala
 260 265 270
 Phe Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu
 275 280 285

His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val
 290 295 300
 Met Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr
 305 310 315 320
 Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu
 325 330 335
 Leu Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg
 340 345 350
 Thr Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu
 355 360 365
 Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly
 370 375 380
 Asn Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala
 385 390 395 400
 Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His
 405 410 415
 Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val
 420 425 430
 Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg
 435 440 445
 Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser
 450 455 460
 Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp
 465 470 475 480
 Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His
 485 490 495
 Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys
 500 505 510
 Ile Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn
 515 520 525

Lys

<210> 325

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 325

```

atggtggctg aggtttgttc aatgcccact gcctctactg tgaagaagcc atttgatctc 60
aggagcaaga tgggcaagtg gtgccaccac cgcttcccct gctgcagggg gagcggcaag 120
agcaacatgg gcacttctgg agaccacgac gactccttta tgaagatgct caggagcaag 180
atgggcaagt gttgccgcca ctgcttcccc tgctgcaggg ggagcggcac gagcaacgtg 240
ggcacttctg gagaccatga aaactccttt atgaagatgc tcaggagcaa gatgggcaag 300
tgggtgctgc actgcttccc ctgctgcagg gggagcggca agagcaacgt gggcgcttgg 360
ggagactacg accacagcgc cttcatggag ccgaggtacc acatccgtcg agaagatctg 420
gacaagctcc acagagctgc ctgggtgggt aaagtcccca gaaaggatct catcgatcatg 480
ctcagggaca ctgacatgaa caagagggac aaggaaaaga ggactgctct acatttggcc 540
tctgccaatg gaaattcaga agtagtacia ctctgctgg acagacgatg tcaacttaat 600
gtccttgaca acaaaaaaag gacagctctg ataaaggcca tacaatgcca ggaagatgaa 660
tgtgtgttaa tgttgctgga acatggcgct gatcgaaata ttccagatga gtatggaaat 720
accgctctac actatgctat ctacaatgaa gataaattaa tggccaaagc actgctctta 780
tatgggtgctg atattgaatc aaaaaacaag gttggcctca caccactttt gcttggcgta 840
catgaacaaa aacagcaagt ggtgaaattt ttaatcaaga aaaaagctaa tttaaatgta 900
cttgatagat atggaaggac tgcctcata cttgctgtat gttgtggatc agcaagtata 960
gtcaatcttc tacttgagca aaatgttgat gtatcttctc aagatctatc tggacagacg 1020
gccagagagt atgctgtttc tagtcatcat catgtaattt gtgaattact ttctgactat 1080
aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaaa tgtctcaaga 1140
accagaataa aataa                                     1155

```

<210> 326

<211> 384

<212> PRT

<213> Homo sapiens

<400> 326

```

Met Val Ala Glu Val Cys Ser Met Pro Thr Ala Ser Thr Val Lys Lys
          5                      10                      15

```

```

Pro Phe Asp Leu Arg Ser Lys Met Gly Lys Trp Cys His His Arg Phe
          20                      25                      30

```

```

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Met Gly Thr Ser Gly Asp
          35                      40                      45

```

```

His Asp Asp Ser Phe Met Lys Met Leu Arg Ser Lys Met Gly Lys Cys
          50                      55                      60

```

```

Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Thr Ser Asn Val
          65                      70                      75                      80

```

```

Gly Thr Ser Gly Asp His Glu Asn Ser Phe Met Lys Met Leu Arg Ser
          85                      90                      95

```

```

Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
          100                      105                      110

```

```

Gly Lys Ser Asn Val Gly Ala Trp Gly Asp Tyr Asp His Ser Ala Phe
          115                      120                      125

```

```

Met Glu Pro Arg Tyr His Ile Arg Arg Glu Asp Leu Asp Lys Leu His
          130                      135                      140

```

Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Met Asn Lys Arg Asp Lys Glu Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Gln Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Ile Gln Cys Gln Glu Asp Glu Cys Val Leu Met
 210 215 220
 Leu Leu Glu His Gly Ala Asp Arg Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys Val Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Val Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Asn Leu Leu Leu Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Glu Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
 370 375 380

<210> 327

<211> 634

<212> DNA

<213> Homo sapiens

<400> 327

gactgctcta catctggcct ctgccaatgg aaattcagaa gtagtaaaac tctgtctgga 60
 cagacgatgt caacttaata tcttgacaa caaaaagagg acagctctga caaaggccgt 120
 acaatgccag gaagatgaat gtgcgttaat gttgctggaa catggcactg atccgaatat 180

```

tccagatgag tatggaaata ccgctctaca ctatgctatc tacaatgaag ataaattaat 240
ggccaaagca ctgctcttat acggtgctga tatcgaatca aaaaacaagc atggcctcac 300
accactgtta cttggtgtac atgagcaaaa acagcaagtg gtgaaatttt taatcaagaa 360
aaaagcaaat ttaaatgcac tggatagata tggagaact gctctcatalc ttgctgtatg 420
ttgtggatcg gcaagtatag tcagccttct acttgagcaa aacattgatg tatcttctca 480
agatctatct ggacagacgg ccagagagta tgctgtttct agtcgtcata atgtaatttg 540
ccagttactt tctgactaca aagaaaaaca gatactaaaa gtctcttctg aaaacagcaa 600
tccaggaaat gtctcaagaa ccagaaataa ataa 634

```

<210> 328

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 328

```

atggtggttg aggttgatgc catgccggct gcctcttctg tgaagaagcc atttggcttc 60
aggagcaaga tgggcaagtg gtgctgccgt tgcttccctt gctgcaggga gagcggcaag 120
agcaacgtgg gcacttctgg agaccacgac gactctgcta tgaagacact caggagcaag 180
atgggcaagt ggtgccgcca ctgcttcccc tgctgcaggg ggagtggcaa gagcaacgtg 240
ggcgcttctg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300
tgggtgctgcc actgcttccc ctgctgcagg gggagcagca agagcaaggt gggcgcttgg 360
ggagactacg atgacagtgc cttcatggag ccaggtacc acgtccgtgg agaagatctg 420
gacaagctcc acagagctgc ctggtggggg aaagtcccc gaaaggatct catcgtcatg 480
ctcagggaca ctgacgtgaa caagcaggac aagcaaaaga ggactgctct acatctggcc 540
tctgccaatg ggaattcaga agtagtaaaa ctctgctgg acagacgatg tcaacttaat 600
gtccttgaca acaaaaagag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
tgtgctgtaa tgttgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
accactctgc actacgctat ctataatgaa gataaattaa tggccaaagc actgctctta 780
tatggtgctg atatcgaatc aaaaaacaag catggcctca caccactgtt acttgggtgta 840
catgagcaaa aacagcaagt cgtgaaattt ttaattaaga aaaaagcgaa tttaaatgca 900
ctggatagat atggaaggac tgctctcata cttgctgtat gttgtggatc agcaagtata 960
gtcagccttc tacttgagca aaatattgat gtatcttctc aagatctatc tggacagacg 1020
gccagagagt atgctgtttc tagtcatcat catgtaattt gccagttact ttctgactac 1080
aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaaa tgtctcaaga 1140
accagaaata aataa 1155

```

<210> 329

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 329

```

atggtggctg aggtttgttc aatgcccgct gcctctgctg tgaagaagcc atttgccttc 60
aggagcaaga tgggcaagtg gtgccaccac cgcttccctt gctgcagggg gagcggcaag 120
agcaacatgg gcacttctgg agaccacgac gactccttta tgaagacgct caggagcaag 180
atgggcaagt gttgccacca ctgcttcccc tgctgcaggg ggagcggcac gagcaatgtg 240
ggcacttctg gagaccatga caactccttt atgaagacac tcaggagcaa gatgggcaag 300
tgggtgctgtc actgcttccc ctgctgcagg gggagcggca agagcaacgt gggcacttgg 360
ggagactacg acgacagcgc cttcatggag ccaggtacc acgtccgtcg agaagatctg 420
gacaagctcc acagagctgc ctggtggggg aaagtcccc gaaaggatct catcgtcatg 480
ctcagggaca ctgacatgaa caagagggac aagcaaaaga ggactgctct acatttggcc 540
tctgccaatg gaaattcaga agtagtacia ctctgctgg acagacgatg tcaacttaac 600
gtccttgaca acaaaaaaag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
tgtgtgttaa tgttgctgga acatggcgct gatggaaata ttcaagatga gtatggaaat 720

```



```

accgctctac actatgctat ctacaatgaa gataaattaa tggccaaagc actgctctta 780
tatgggtgctg atattgaatc aaaaaacaag tgtggcctca caccactttt gcttggcgta 840
catgaacaaa aacagcaagt ggtgaaatth ttaatcaaga aaaaagctaa tttaaatgca 900
cttgatagat atggaagaac tgccctcata cttgctgtat gttgtggatc agcaagtata 960
gtcaatcttc tacttgagca aaatgttgat gtatcttctc aagatctatc tggacagacg 1020
gccagagagt atgctgtttc tagtcatcat catgtaattt gtgaattact ttctgactat 1080
aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaaa tgtctcaaga 1140
accagaaata aataa 1155

```

```

<210> 330
<211> 1155
<212> DNA
<213> Homo sapiens

```

```

<400> 330
atgggtggctg aggtttgttc aatgcccact gcctctactg tgaagaagcc atttgatctc 60
aggagcaaga tgggcaagtg gtgccaccac cgcttcccct gctgcagggg gagcggaag 120
agcaacatgg gcacttctgg agaccacgac gactccttta tgaagatgct caggagcaag 180
atgggcaagt gttgccgcca ctgcttcccc tgctgcaggg ggagcggcac gagcaacgtg 240
ggcacttctg gagaccatga aaactccttt atgaagatgc tcaggagcaa gatgggcaag 300
tggtgctgtc actgcttccc ctgctgcagg gggagcggca agagcaacgt gggcgcttgg 360
ggagactacg accacagcgc cttcatggag ccgaggtacc acatccgtcg agaagatctg 420
gacaagctcc acagagctgc ctggtggggg aaagtcccca gaaaggatct catcgtcatg 480
ctcagggaca ctgacatgaa caagagggac aaggaaaaga ggactgctct acatttggcc 540
tctgccaatg gaaattcaga agtagtaca ctcctgctgg acagacgatg tcaacttaat 600
gtccttgaca acaaaaaaag gacagctctg ataaaggcca tacaatgcca ggaagatgaa 660
tgtgtgttaa tgttgctgga acatggcgct gatcgaaata ttccagatga gtatggaaat 720
accgctctac actatgctat ctacaatgaa gataaattaa tggccaaagc actgctctta 780
tatgggtgctg atattgaatc aaaaaacaag tgtggcctca caccactttt gcttggcgta 840
catgaacaaa aacagcaagt ggtgaaatth ttaatcaaga aaaaagctaa tttaaatgta 900
cttgatagat atggaagaac tgccctcata cttgctgtat gttgtggatc agcaagtata 960
gtcaatcttc tacttgagca aaatgttgat gtatcttctc aagatctatc tggacagacg 1020
gccagagagt atgctgtttc tagtcatcat catgtaattt gtgaattact ttctgactat 1080
aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaaa tgtctcaaga 1140
accagaaata aataa 1155

```

```

<210> 331
<211> 210
<212> PRT
<213> Homo sapiens

```

```

<400> 331
Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys
      5              10              15

Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn Ile Leu Asp Asn Lys Lys
      20              25              30

Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala
      35              40              45

Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr
      50              55              60

```

Gly Asn Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met
65 70 75 80

Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys
85 90 95

His Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln
100 105 110

Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp
115 120 125

Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala
130 135 140

Ser Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln
145 150 155 160

Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser Arg His
165 170 175

Asn Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Ile Leu
180 185 190

Lys Val Ser Ser Glu Asn Ser Asn Pro Gly Asn Val Ser Arg Thr Arg
195 200 205

Asn Lys
210

<210> 332

<211> 384

<212> PRT

<213> Homo sapiens

<400> 332

Met Val Ala Glu Val Cys Ser Met Pro Thr Ala Ser Thr Val Lys Lys
5 10 15

Pro Phe Asp Leu Arg Ser Lys Met Gly Lys Trp Cys His His Arg Phe
20 25 30

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Met Gly Thr Ser Gly Asp
35 40 45

His Asp Asp Ser Phe Met Lys Met Leu Arg Ser Lys Met Gly Lys Cys
50 55 60

Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Thr Ser Asn Val
65 70 75 80

Gly Thr Ser Gly Asp His Glu Asn Ser Phe Met Lys Met Leu Arg Ser
85 90 95

Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Asn Val Gly Ala Trp Gly Asp Tyr Asp His Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Ile Arg Arg Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Met Asn Lys Arg Asp Lys Glu Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Gln Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Ile Gln Cys Gln Glu Asp Glu Cys Val Leu Met
 210 215 220
 Leu Leu Glu His Gly Ala Asp Arg Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys Cys Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Val Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Asn Leu Leu Leu Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Glu Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
 370 375 380

<210> 333
 <211> 384
 <212> PRT
 <213> Homo sapiens

<400> 333

Met	Val	Ala	Glu	Val	Cys	Ser	Met	Pro	Ala	Ala	Ser	Ala	Val	Lys	Lys	5	10	15	
Pro	Phe	Asp	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	His	His	Arg	Phe	20	25	30	
Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Met	Gly	Thr	Ser	Gly	Asp	35	40	45	
His	Asp	Asp	Ser	Phe	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Cys	50	55	60	
Cys	His	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Thr	Ser	Asn	Val	65	70	75	80
Gly	Thr	Ser	Gly	Asp	His	Asp	Asn	Ser	Phe	Met	Lys	Thr	Leu	Arg	Ser	85	90	95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	100	105	110	
Gly	Lys	Ser	Asn	Val	Gly	Thr	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe	115	120	125	
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Arg	Glu	Asp	Leu	Asp	Lys	Leu	His	130	135	140	
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met	145	150	155	160
Leu	Arg	Asp	Thr	Asp	Met	Asn	Lys	Arg	Asp	Lys	Gln	Lys	Arg	Thr	Ala	165	170	175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Gln	Leu	Leu	180	185	190	
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr	195	200	205	
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Val	Leu	Met	210	215	220	
Leu	Leu	Glu	His	Gly	Ala	Asp	Gly	Asn	Ile	Gln	Asp	Glu	Tyr	Gly	Asn	225	230	235	240
Thr	Ala	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys				

Ser Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Val Asn Lys Gln Asp Lys Gln Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
 210 215 220
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
 370 375 380